

OJSC SUKSUN OPTICAL & MECHANICAL PLANT

ROSOMZ®

www.rosomz.ru



OJSC Suksun Optical & Mechanical plant
quality management system is approved
for conformity with ISO 9001:2015.
The Certificate issued by TÜV SÜD
№ 12 100 35601 TMS, Germany

PERSONAL PROTECTIVE EQUIPMENT

spectacles and goggles

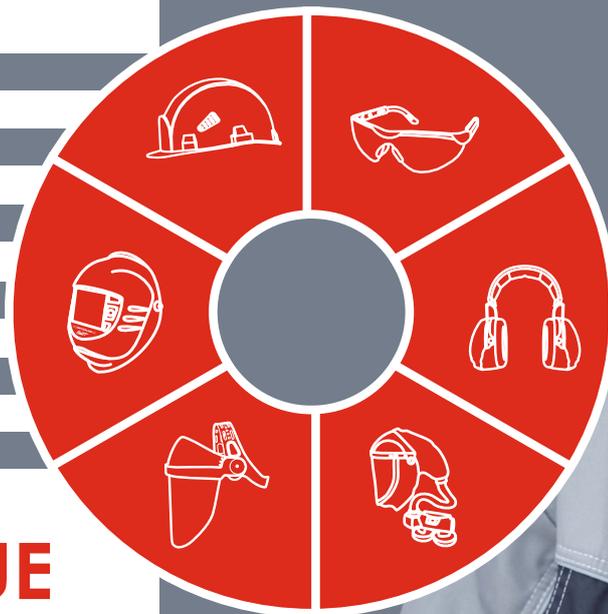
safety helmets

welding helmets

protective face shields

earmuffs

PPE sets



CATALOGUE



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ROSOMZ® PPE

OJSC Suksun Optical & Mechanical Plant ROSOMZ®

OJSC Suksun Optical & Mechanical Plant is a leading Russian developer and manufacturer of more than 500 types of head, eye, hearing and respiratory protectors.

- ✓ Innovative models!
- ✓ High quality production!
- ✓ Punctual delivery!
- ✓ Specialist on-site visit!
- ✓ Consultative support!



Plant Office

ENGINEERING

More than 20 new PPE models are annually developing and launching into serial manufacture. Using most modern means and equipment for new models design and prototyping (photo 6,7) including 3D printers (photo 5) we provide the best product ergonomics and fulfill requirements of State Standards and Technical Regulation as well.

TESTING

OJSC Suksun Optical & Mechanical Plant has its own test lab (photo 8,13) equipped with up-to-date test machinery, that allows our specialists successfully solve the problems of reliable workers protection against harmful and hazardous factors, improve PPE quality and reliability.

MANUFACTURE

We follow Industry 4.0, robotizing production processes and launching automatic control systems, that directly affects upon production quality (photo 9). In order to increase precision of the technological operations fulfillment manipulating robots are launched into manufacture.

We use a new generation injection molding machines in our manufacture (photo 11,12). These machines give us a possibility to obtain not only high quality molding and economical production, but possibility to use innovative materials as well.

Special clothing factory is working (photo 7).

CERTIFICATION

All our products meet Technical Regulation of the Customs Union requirements, main product groups are certified for conformity to European standards.

LOGISTICS

The modern software allows us to manage stock resources effectively; the product turnover is not longer than 3 months therefore you can be sure in a maximum working life of the product you get. The goods dispatch is effected using bar code reading system. The bar code is applied onto transport box and each product unit, so this automated goods collection excludes re-sorting.

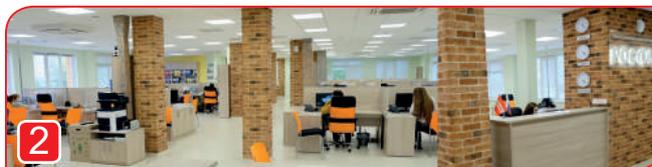
The goods is transporting on pallets thoroughly wrapped in stretch film. This allows to transport the goods at long distances without boxes damage (photo 3, 4).

CUSTOMIZATION

We have launched the most modern technologies of logo application by pad printing process. The printed logo on you safety helmet, face shield or spectacle is your corporate style, commitment to a brand. This logo will be kept safe even in aggressive environments.

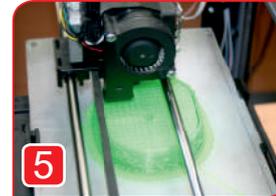
We often put tasks before our designers on customers' demands dissolving. We are oriented to cooperation with you and ready to create PPE for worker protection in specific industrial conditions.

We are waiting you orders! We wish you safe work!
ROSOMZ® Team.



Sales & Marketing Service



3
Logistics Service4
Finished-products storage area5
3D printer6
Designing

7

A wide product range, time-proved quality, reliable protection and user comfort during working day, reasonable prices are general advantages of **ROSOMZ** PPE and PAPRs.



8

Molten metal splashes test



9

Optical coating shop



14

Manipulating robot



10

Designing



11

Injection molding machines



12



13

High velocity particles impact test



15

Marking application using modern equipment.

O88 SURGUT protective spectacles



Detachable seal



flexible temples



SOFT NOSE PADS

Soft detachable seal *

for work at lower temperature, fits to the face tightly, provides additional comfort.

*This part is also available separately.



Modern universal spectacles with polycarbonate lens, hard coating. Reliable eye protection against high velocity particles, abrasives, UV radiation. Resistant to alkali and acid solutions.

Features:

- wrap-around lens shape;
- low temples pressure;
- seal (0807 item number) for cold operation.

Lens material:

- **PC** - polycarbonate. Provides protection against high velocity particles and optical radiation.;
- **PC StrongGlass™** - high grade double-sided water resistant hard/anti-fog coating.
- **PC super** - generic double-sided water resistant hard/anti-fog coating.

Lens marking:

2C-1.2	UV filter with good color recognition
👁️(RZ)	Manufacturer identification
1	Optical class one
FT	Symbol of mechanical strength (high velocity particles low energy impact- 45 m/s) at extremes of temperature (-5°C – 55°C)
K	Symbol of resistance to surface damage by fine particles
N	Symbol of resistance to fogging

* items with molded nose bridge from -30°C to +80°C

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84



Optical class one
Mass: 20 g

O88 SURGUT model range



18840,
18830, 18830-5,
18837, 18837-5

Model name:	O88 SURGUT		
Item number:	18840	18830, 18830-5	18837, 18837-5
Lens:	PC	PC super	PC StrongGlass™
Filter:	2C-1,2 clear		
Use:	Grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials		



18836, 18836-5
18857, 18857-5

Model name:	O88 SURGUT CONTRAST		
Item number:	18836, 18836-5	18857, 18857-5	
Lens:	PC super	PC StrongGlass™	
Filter:	2-1,2 amber		
Use:	where contrast increasing required, high precision works at insufficient illumination, machining, in medical institutions		



18843
18823, 18823-5
18855, 18855-5

Model name:	O88 SURGUT		
Item number:	18843	18823, 18823-5	18855, 18855-5
Lens:	PC	PC super	PC StrongGlass™
Filter:	5-2,5 gray		
Use:	Construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses		



18820, 18820-5
18850, 18850-5

Model name:	O88 SURGUT		
Item number:	18820, 18820-5	18850, 18850-5	
Lens:	PC super	PC StrongGlass™	
Filter:	2-1,4 light orange		
Use:	for eye UV protection (500 nm wave length cut), in medicine at works with UV applicators and germicide lamps		



18862, 18862-5
18827, 18827-5

Model name:	O88 SURGUT		
Item number:	18862, 18862-5	18827, 18827-5	
Lens:	PC super	PC StrongGlass™	
Filter:	5-3,1 dark gray		
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air		



18816, 18816-5
18852, 18852-5

Model name:	O88 SURGUT		
Item number:	18816, 18816-5	18852, 18852-5	
Lens:	PC super	PC StrongGlass™	
Filter:	2-2 orange		
Use:	for advanced eye UV protection (500 nm wave length cut) in medicine at works with UV applicators and germicide lamp		



18841, 18841-5
18860, 18860-5

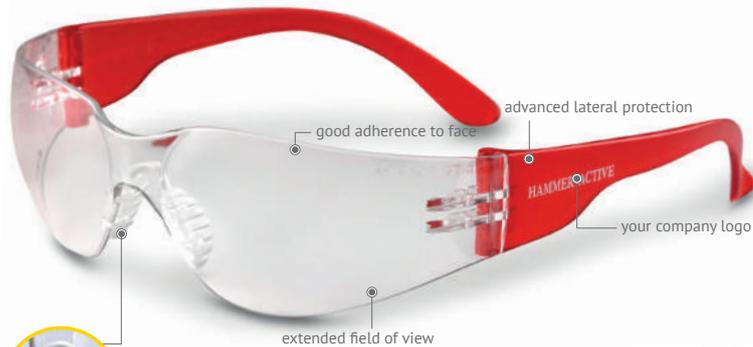
Model name:	O88 SURGUT		
Item number:	18841, 18841-5	18860, 18860-5	
Lens:	PC super	PC StrongGlass™	
Filter:	2-1,2 light yellow		
Use:	driving, rooms with LED lamps illumination, working on a computer, advanced UV protection (405 nm wave length cut)		

*items with soft nose pads (eg. 18850-5),
others – with molded nose bridge.



015 HAMMER ACTIVE protective spectacles

TOP SELLER!



soft nose bridge



flexible temples



Blue temples for models with **StrongGlass™** lens

Detachable seal



00817



Soft detachable seal* made of foamed PU prevents face supercooling at low temperature, ideally adheres to face, provides protection against dust and moisture, additional wearing comfort, easy removal and installation.

*This part is also available separately

Modern universal spectacles with polycarbonate lens, hard coating. Provides extended field of view. Reliable eye protection against high velocity particles, abrasives, UV radiation. Resistant to alkali and acid solutions. Advanced lateral protection due widened temples.

- Lens material:**
- **PC StrongGlass™** – polycarbonate. Provides protection against high velocity particles and optical radiation.
- Coatings**
- **StrongGlass™** - high grade double-sided water resistant hard/anti-fog coating.
 - **super** - generic double-sided water resistant hard/anti-fog coating.

- Features:**
- wrap-around lens shape;
 - low temples pressure;
 - seal (00817 item number) for cold operation.

11530 Corrective bifocal safety spectacles



Model name:	015 HAMMER ACTIVE бифокальные
Item number:	11530
Lens:	PC PC super
Filter:	2C-1.2 clear
Features:	bifocal segments for near vision correction powers available: +1.0 D 11530/10 +2.0 D 11530/20 +3.0 D 11530/30
	NPD: 62 – 64 mm



Optical class one
Mass: 23 g

O15 HAMMER ACTIVE model range



11530
11530-5 11537
11537-5

Model name:	O15 HAMMER ACTIVE
Item number:	11530 11537 11530-5 11537-5
Lens:	PC super PC StrongGlass™
Filter:	2-1,2 clear
Use:	grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials



11541
11541-5 11560
11560-5

Model name:	O15 HAMMER ACTIVE CONTRAST
Item number:	11541 11560 11541-5 11560-5
Lens:	PC super PC StrongGlass™
Filter:	2-1,2 light yellow
Use:	driving, rooms with LED lamps illumination, working on a computer, advanced UV protection (405 nm wave length cut)



11517

Model name:	O15 HAMMER ACTIVE
Item number:	11517
Lens:	PC super
Filter:	2-1,7 with mirror coating
Use:	protection against UV radiation and bright sunlight



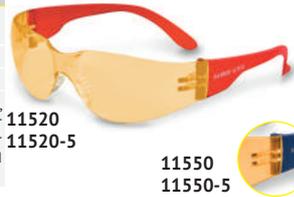
11536
11536-5 11557
11557-5

Model name:	O15 HAMMER ACTIVE CONTRAST
Item number:	11536 11557 11536-5 11557-5
Lens:	PC super PC StrongGlass™
Filter:	2-1,2 amber
Use:	where contrast increasing required, high precision works at insufficient illumination, machining, in medical institutions



11523
11523-5 11555
11555-5

Model name:	O15 HAMMER ACTIVE
Item number:	11523 11555 11523-5 11555-5
Lens:	PC super PC StrongGlass™
Filter:	5-2,5 gray
Use:	construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses



11520
11520-5 11550
11550-5

Model name:	O15 HAMMER ACTIVE
Item number:	11520 11550 11520-5 11550-5
Lens:	Lens: PC StrongGlass™
Filter:	2-1,4 light orange
Use:	for eye UV protection (500 nm wave length cut), in medicine at works with UV applicators and germicide lamps



11562
11562-5 11527
11527-5

Model name:	O15 HAMMER ACTIVE
Item number:	11562 11527 11562-5 11527-5
Lens:	PC super PC StrongGlass™
Filter:	5-3,1 dark gray
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air



11516
11516-5 11552
11552-5

Model name:	O15 HAMMER ACTIVE
Item number:	11516 11552 11516-5 11552-5
Lens:	PC super PC StrongGlass™
Filter:	2-2 orange
Use:	for advanced eye UV protection (500 nm wave length cut) in medicine at works with UV applicators and germicide lamps

*items with soft nose pads (eg.18850-5)
others – with molded nose bridge

050 MONACO protective spectacles



Soft detachable seal

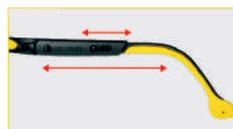
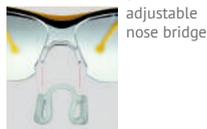


APPROVED FOR USE
UP TO -20°C

NEW!

Soft detachable seal* made of foamed PU prevents face supercooling at low temperature, ideally adheres to the face, provides protection against dust and moisture, additional wearing comfort, easy removal and installation.

*This part is also available separately



Modern universal spectacles with polycarbonate lens, hard coating. Reliable eye protection against high velocity particles, abrasives, UV radiation. Resistant to alkali and acid solutions.

Features:

- temple length and lens tilt adjustment;
- adjustable soft nose bridge;
- flexible temples with anti-slippage inserts;
- composite brow bar consisting of two parts - internal made of TPE, external made of plastic;
- seal (00827 item number) for work in cold condi;
- reliable protection against high velocity particles (low energy impact V=45 m/s).

Lens material:

- **PC** – polycarbonate. Provides protection against high velocity particles and optical radiation.

Coatings

- **StrongGlass™** – high grade double-sided water resistant hard/anti-fog coating.
- **PC super** – generic double-sided water resistant hard/anti-fog coating.

Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.

O50 MONACO model range



15030
15037



15044



15023
15055



15036
15057



15015

Recommended filter use:

- **2-1.2 clear** for grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials;
- **5-3.1 dark gray** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air;
- **2-1.2 amber** for contrast increasing, high precision works at insufficient illumination, machining, in medical institutions;
- **5-2.5 gray** for construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses;
- **5-2.5 brown** same as 5-25 gray.

Model name:	O50 MONACO
Item number:	15030 15037
Lens:	PC super PC StrongGlass™
Filter:	2C-1.2 clear
Наименование:	O50 MONACO
Item number:	15044
Lens:	PC StrongGlass™
Filter:	5-2.5 brown
Model name:	O50 MONACO
Item number:	15023 15055
Lens:	PC super PC StrongGlass™
Filter:	5-2.5 gray
Model name:	O50 MONACO Contrast
Item number:	15036 15057
Lens:	PC super PC StrongGlass™
Filter:	2-1.2 amber
Model name:	O50 MONACO
Item number:	15015
Lens:	PC super
Filter:	5-3.1 with mirror coating



ERC



Optical class one
Mass: 29 g

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

O37 UNIVERSAL TITAN protective spectacles

LEADER IN PROTECTION!



Universal spectacles with impact resistant lens. Reliable eye protection against high velocity particles, abrasives, UV radiation. Resistant to alkali and acid solutions.

Features:

- temple length and lens tilt adjustment;
- reliable protection against high velocity particles (low energy impact $V=45$ m/s).

Lens material:

- **PC** - polycarbonate. Provides protection against high velocity particles and optical radiation;
- **Plexiglas*** - impact resistance PMMA. Rather hard plastic, no coating required;

Coatings

- **StrongGlass™** - high grade double-sided water resistant hard/anti-fog coating;
- **super** - generic double-sided water resistant hard/anti-fog coating.

Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.

* Plexiglas is replacing by new Absolute PC grade which is resistant to abrasive due double sided hard coating.
Please contact sales managers for elaboration.



Optical class one
Mass: 35 g

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

O37 UNIVERSAL TITAN model range



13740
13711



13730
13730-5



13737
13737-5

Model name:	O37 UNIVERSAL TITAN			
Item number:	13740	13711	13730, 13730-5	13737, 13737-5
Lens:	PC	Plexiglas	PC super	PC StrongGlass™
Filter:	2C-1.2 clear			
Use:	grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials			



13734
13734-5



13756
13756-5

Model name:	O37 UNIVERSAL TITAN			
Item number:	13756, 13756-5	13734, 13734-5		
Lens:	PC super	PC StrongGlass™		
Filter:	5 dark green			
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding, gas cutting and welding			



13742
13725



13739
13739-5



13727
13727-5

Model name:	O37 UNIVERSAL TITAN			
Item number:	13742	13725	13739, 13739-5	13727, 13727-5
Lens:	PC	Plexiglas	PC super	PC StrongGlass™
Filter:	5-3.1 dark gray			
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air			



13745
13713



13736
13736-5



13757
13757-5

Model name:	O37 UNIVERSAL TITAN CONTRAST			
Item number:	13745	13713	13736, 13736-5	13757, 13757-5
Lens:	PC	Plexiglas	PC super	PC StrongGlass™
Filter:	2-1.2 ambe			
Use:	where contrast increasing required, high precision works at insufficient illumination, machining, in medical institutions			



13724



13723
13723-5



13755
13755-5

Model name:	O37 UNIVERSAL TITAN			
Item number:	13724	13723, 13723-5	13755, 13755-5	
Lens:	Plexiglas	PC super	PC StrongGlass™	
Filter:	5-2.5 gray			
Use:	construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses			



13741
13741-5



13760
13760-5

Model name:	O37 UNIVERSAL TITAN			
Item number:	13741, 13741-5	13760, 13760-5		
Lens:	PC super	PC StrongGlass™		
Filter:	2-1.2 light yellow			
Use:	driving, rooms with LED lamps illumination, working on a computer, advanced UV protection (405 nm wave length cut)			



13748
13748-5



13729
13729-5

Model name:	O37 UNIVERSAL TITAN			
Item number:	13729, 13729-5	13748, 13748-5		
Lens:	PC super	PC StrongGlass™		
Filter:	3 green			
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air			



13712



13716
13716-5



13752
13752-5

Model name:	O37 UNIVERSAL TITAN			
Item number:	13712	13716, 13716-5	13752, 13752-5	
Lens:	Plexiglas	PC super	PC StrongGlass™	
Filter:	2-2 Orange			
Use:	for advanced eye UV protection (500 nm wave length cut) in medicine at works with UV applicators and germicide lamps			

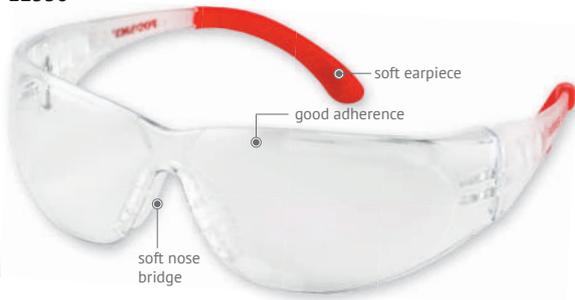
* items with soft nose pads (eg.18850-5), others – with molded nose bridge

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Protective spectacles O25 HAMMER UNIVERSAL 12530

**COLD
OPERATION!**



Model name:	O25 HAMMER UNIVERSAL
Item number:	12530
Lens:	PC super
Filter:	2-1.2 clear

Light weighted modern universal spectacles with polycarbonate lens, water resistant double-sided hard/anti-fog coating. Reliable eye protection against high speed particles, abrasives, UV radiation. Resistant to alkali and acid solutions.

O55 HAMMER PROFI 15530



Model name:	O55 HAMMER PROFI
Item number:	15530
Lens:	PC super
Filter:	2-1,2

Features:

- soft nose bridge;
- temples with soft tips preventing slippage;
- suitable for prolonged wearing without fatigue.

Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.



Optical class one
Mass: 23 g

NO ANALOGS!**NEW!****O21 SPECTRUM STAL** protective spectacles

12106



without side shields



Protective spectacle with ocular made of steel wire mesh (cell size 2 x 2 mm) painted with black enamel for rust prevention. Provides protection against high speed particles (low energy impact $V=45$ m/s).

Features:

- ocular provides good vision due optimum mesh size;
- light and durable design;
- adjustable temples;
- detachable transparent side shields provides lateral protection without limitation of the field of view.

Features:

- adjustable lens tilt;
- adjustable temple length;
- soft nose bridge.

Use:

grass moving, bushes and trees trimming, wood works, stone, metal and plastic works.



Mass: 34 g.

085 ARCTIC protective spectacles

COMFORTABLE PROTECTION!



lens tilt adjustment allows to adapt spectacles to individual requirements



temple length adjustment provides good adherence to face



possibility of cord attachment is stipulated

item number 00809

Light weighted modern universal spectacles with polycarbonate one-piece lens, water resistant double-sided hard/anti-fog coating. Reliable eye protection against high speed particles, abrasives, UV radiation. Provides protection against high velocity particles (low energy impact $V=45$ m/s). Resistant to alkali and acid solutions.

signal frame color



Lens material:

- **PC** - polycarbonate. Provides protection against high velocity particles and optical radiation.

Coatings

- **super** - generic double-sided water resistant hard/anti-fog coating.

Features:

- adjustable lens tilt;
- adjustable temple length;
- soft nose bridge.

Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.

ERC



Optical class one.

Mass: 29 g.

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

O85 ARCTIC model range



18530

Model name:	O85 ARCTIC
Item number:	18530
Lens:	PC super
Filter:	2-1.2 clear



18536

Model name:	O85 ARCTIC CONTRAST
Item number:	18536
Lens:	PC super
Filter:	2-1.2 amber



18523

Model name:	O85 ARCTIC
Item number:	18523
Lens:	PC super
Filter:	5-2.5 gray



18530 corrective bifocal safety
spectacle

Model name:	O85 ARCTIC bifocal
Item number:	18530
Lens:	PC super
Filter:	2-1.2 clear
Features:	bifocal segments for near vision correction Powers available: +1.0 D 18530/10 +1.5 D 18530/15 +2.0 D 18530/20 +2.5 D 18530/25 +3.0 D 11530/30
	NPD: 62 – 64 mm



18524

Model name:	O85 ARCTIC
Item number:	18524
Lens:	PC super
Filter:	5-2.5 brown

Recommended filter use:

- **2-1.2 clear** for grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials;
- **2-1.2 amber** for contrast increasing, high precision works at insufficient illumination, machining, in medical institutions;
- **5-2.5 gray** for construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses;
- **5-2.5 brown** для for construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses.



O87 ARCTIC protective spectacles

Eye protectors



Light weighted modern universal spectacles with polycarbonate one-piece lens, water resistant double-sided hard/anti-fog coating. Reliable eye protection against high speed particles, abrasives, UV radiation. Provides protection against high velocity particles (low energy impact V=45 m/s). Resistant to alkali and acid solutions.

Lens material

- **PC** polycarbonate. Provides protection against high velocity particles and optical radiation.

Coatings

- **StrongGlass™** - high grade double-sided water resistant hard/anti-fog coating.
- **super** - generic double-sided water resistant hard/anti-fog coating.

Features:

- adjustable lens tilt;
- adjustable temple length;
- soft nose bridge.

Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.



Optical class one.

Mass: 29 g.

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

O87 ARCTIC model range



18737

Model name:	O87 ARCTIC
Item number:	18737
Lens:	PC StrongGlass™
Filter:	2-1.2 clear



18727

Model name:	O87 ARCTIC
Item number:	18727
Lens:	PC StrongGlass™
Filter:	5-3.1 dark gray



18715

Model name:	O87 ARCTIC
Item number:	18715
Lens:	PC super
Filter:	5-3.1 with mirror coating



18757

Model name:	O87 ARCTIC CONTRAST
Item number:	18757
Lens:	PC StrongGlass™
Filter:	2-1.2 amber

Lens marking:

2-1.2	UV filter, clear
(RZ)	Manufacturer identification
1	Optical class one
FT	Symbol of mechanical strength (high speed particles low energy impact- 45 m/s) at extremes of temperature (-5°C – 55°C)
K	Symbol of resistance to surface damage by fine particles
N	Symbol of resistance to fogging

Recommended filter use:

- **2-1.2 clear** for grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials;
- **5-3.1 dark gray** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air;
- **5-3.1 dark gray with mirror coating** works at bright sunlight, sunglare, sun glints from water, ice, snow surfaces; recommended to drivers, those who plays water and winter sports and who need more protection against sun glare and glint; it also should be used as trendy sunglasses;
- **2-1.2 amber** for contrast increasing, high precision works at insufficient illumination, machining, in medical institutions.

O35 VISION® protective spectacles

SPECTACLES FOR VISITORS!



Eye protectors

Universal spectacles with panoramic one-piece lens, water resistant double-sided hard/anti-fog coating. Reliable eye protection against high velocity particles, abrasives, UV radiation. Provides protection against high velocity particles (low energy impact $V=45$ m/s). Resistant to alkali and acid solutions.

Lens material:

- **Plexiglas*** - impact resistance PMMA. Rather hard plastic, no coating required;
- **PC** - polycarbonate. Provides protection against high velocity particles and optical radiation

Coating.

- **StrongGlass™** - high grade double-sided water resistant hard/anti-fog coating;
- **super** - generic double-sided water resistant hard/anti-fog coating.

Features:

- wide temple for reliable lateral protection;
- advanced top and lateral protection;
- adjustable lens tilt;
- possible to wear together with corrective spectacles.

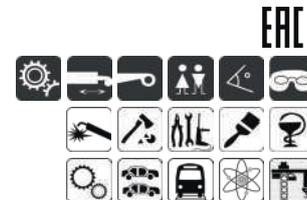
Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.

Lens marking:

ZC-1.2	UV filter
(RZ)	Manufacturer identification
1	Optical class one
FT	Symbol of mechanical strength (high speed particles low energy impact - 45 m/s) at extremes of temperature (-5°C – 55°C)
K	Symbol of resistance to surface damage by fine particles
N	Symbol of resistance to fogging

* Plexiglas is replacing by new Absolute PC grade which is resistant to abrasive due double sided hard coating.
Please contact sales managers for elaboration.



Optical class one
Mass: 40 g

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

O35 VISION® model range

13511 13537
13530 13540



Model name:	O35 VISION®			
Item number:	13540	13511	13530	13537
Lens:	PC	Plexiglas	PC super	PC StrongGlass™
Filter:	2-1.2 clear			
Use:	grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials			

13541
13560



Model name:	O35 VISION®	
Item number:	13541	13560
Lens:	PC super	PC StrongGlass™
Filter:	2-1.2 light yellow	
Use:	driving, rooms with LED lamps illumination, working on a computer, advanced UV protection (405 nm wave length cut)	

13513 13545
13536 13557



Model name:	O35 VISION® CONTRAST			
Item number:	13545	13513	13536	13557
Lens:	PC	Plexiglas	PC super	PC StrongGlass™
Filter:	2-1.2 amber			
Use:	where contrast increasing required, high precision works at insufficient illumination, machining, in medical institutions			

13520
13550



Model name:	O35 VISION®	
Item number:	13520	13550
Lens:	PC super	PC StrongGlass™
Filter:	2-1.4 light orange	
Use:	for eye UV protection (500 nm wave length cut) in medicine at works with UV applicators and germicide lamps	

13512 13552
13516



Model name:	O35 VISION®		
Item number:	13512	13516	13552
Lens:	Plexiglas	PC super	PC StrongGlass™
Filter:	2-2 orange		
Use:	for advanced eye UV protection (500 nm wave length cut) in medicine at works with UV applicators and germicide lamps		

13523 13555
13524



Model name:	O35 VISION®		
Item number:	13524	13523	13555
Lens:	Plexiglas	PC super	PC StrongGlass™
Filter:	5-2.5 gray		
Use:	construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses		

13525 13542
13527 13563



Model name:	O35 VISION®			
Item number:	13542	13525	13563	13527
Lens:	PC	Plexiglas	PC super	PC StrongGlass™
Filter:	5-3.1 dark gray			
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air			

13548
13529



Model name:	O35 VISION®	
Item number:	13529	13548
Lens:	PC super	PC StrongGlass™
Filter:	3 green	
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air	

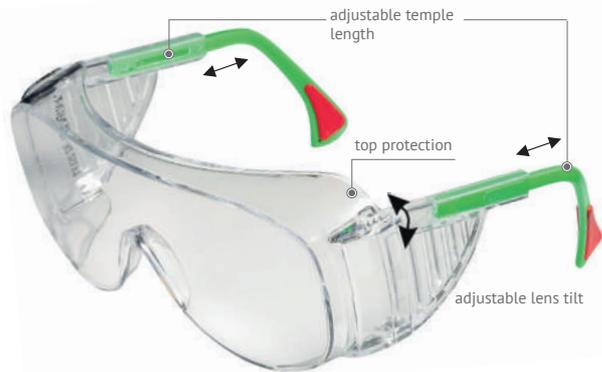
13534
13556



Model name:	O35 VISION®	
Item number:	13556	13534
Lens:	PC super	PC StrongGlass™
Filter:	5 dark green	
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding, gas cutting and welding	

O45 VISION® protective spectacles

ADVANCED PROTECTION!



O45 VISION® use with corrective spectacles



Optical class one
Mass: 40 g

Universal spectacles with panoramic one-piece lens, water resistant double-sided hard/anti-fog coating. Reliable eye protection against high speed particles, abrasives, UV radiation. Provides protection against high velocity particles (low energy impact $V=45$ m/s). Resistant to alkali and acid solutions.

Lens material:

- **PC** - polycarbonate. Provides protection against high velocity particles and optical radiation;
- **Plexiglas*** - impact resistance PMMA. Rather hard plastic, no coating required;

Coating

- **PC StrongGlass™** - high grade double-sided water resistant hard/anti-fog coating;
- **PC super** - generic double-sided water resistant hard/anti-fog coating.

Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.

* Plexiglas is replacing by new Absolute PC grade which is resistant to abrasive due double sided hard coating.
Please contact sales managers for elaboration.

O45 VISION® model range

	Model name:	O45 VISION®			
	Item number:	14540	14511	14530	14537
14511 14540	Lens:	PC	Plexiglas	PC super	PC StrongGlass™
	Filter:	2-1.2 clear			
14530 14537	Use:	grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials			
	Model name:	O45 VISION®			
	Item number:	14541	14560		
14541	Lens:	PC super	PC StrongGlass™		
	Filter:	2-1.2 light yellow			
14560	Use:	driving, rooms with LED lamps illumination, working on a computer, advanced UV protection (405 nm wave length cut)			
	Model name:	O45 VISION® CONTRAST			
	Item number:	14545	14513	14536	14557
14513 14545	Lens:	PC	Plexiglas	PC super	PC StrongGlass™
	Filter:	2-1.2 amber			
14536 14557	Use:	where contrast increasing required, high precision works at insufficient illumination, machining, in medical institutions			
	Model name:	O45 VISION®			
	Item number:	14520	14550		
14520	Lens:	PC super	PC StrongGlass™		
	Filter:	2-1.4 light orange			
14550	Use:	for eye UV protection (500 nm wave length cut) in medicine at works with UV applicators and germicide lamps			
	Model name:	O45 VISION®			
	Item number:	14512	14516	14552	
14512	Lens:	Plexiglas	PC super	PC StrongGlass™	
	Filter:	2-2 orange			
14516 14552	Use:	for advanced eye UV protection (500 nm wave length cut) in medicine at works with UV applicators and germicide lamps			

	Model name:	O45 VISION®			
	Item number:	14524	14523	14555	
14524	Lens:	Plexiglas	PC super	PC StrongGlass™	
	Filter:	5-2.5 gray			
14523 14555	Use:	construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses			
	Model name:	O45 VISION®			
	Item number:	14542	14525	14563	14527
14525 14542	Lens:	PC	Plexiglas	PC super	PC StrongGlass™
	Filter:	5-3.1 dark gray			
14563 14527	Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air			
	Model name:	O45 VISION®			
	Item number:	14529	14548		
14529	Lens:	PC super	PC StrongGlass™		
	Filter:	3 green			
14548	Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air			
	Model name:	O45 VISION®			
	Item number:	14556	14534		
14556	Lens:	PC super	PC StrongGlass™		
	Filter:	5 dark green			
14534	Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding, gas cutting and welding			

ARCTIC north protective spectacles

NEW!



Model combines advantages of protective spectacles and goggles due adjustable headband. Panoramic one-piece lens, water resistant double-sided hard/anti-fog coating. Reliable eye protection against high speed particles, abrasives, UV radiation. Provides protection against high velocity particles (low energy impact $V=45$ m/s). Resistant to alkali and acid solutions. Additional frame for corrective lenses fixation.

Features:

- advanced adherence to face due headband;
- effective ventilation;
- detachable foam seal;
- suitable for any face shape due adjustable nose pad, headband and soft inserts in earpieces;
- wearing comfort (possible to wear over 8 hour working shift);
- vision correction due additional frame with lenses (power range from ± 0.5 to ± 3.0 diopters).

Lens material:

- PC - polycarbonate. Provides protection against high speed particles and optical radiation

Coating.

- **super** - generic double-sided water resistant hard/anti-fog coating.

Use:

- works in wide temperature range;
- especially heavy works such as minerals and precious metals mining, oil and gas recovery;
- works in confined spaces.



EAC

Optical class one
Mass: 23 g

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

ARCTIC north model range



18630



18629



18636



38630



38629



38636

Model name:	ARCTIC north
Item number:	18630
Lens:	PC super
Filter:	2C-1.2 clear

Model name:	ARCTIC north
Item number:	18629
Lens:	PC super
Светофильтр:	5-3.1 dark gray

Model name:	ARCTIC CONTRAST north
Item number:	18636
Lens:	PC super
Filter:	2-1.2 amber

Recommended filter use:

- **2C-1.2 clear** for grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials;
- **5-3.1 dark gray** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air;
- **2-1.2 amber** for contrast increasing, high precision works at insufficient illumination, machining, in medical institutions.

ARCTIC north spectacle set:

- spectacles assembly;
- headband in PE bag;
- detachable foam seal.



Additional frame for corrective lenses

00889



Lens power range from ± 0.5 to ± 3.0 diopters.



Frame/seal assembly

O2 SPECTRUM model range



10210



10231



10221



10232



10222



10233

Model name:	O2 SPECTRUM
Item number:	10210
Lens:	HMG
Filter:	2-1.2 clear
Use:	grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials

Model name:	O2 SPECTRUM (2,5)
Item number:	10221
Lens:	HMG
Filter:	2.5 gray
Use:	construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses

Model name:	O2 SPECTRUM (3)
Item number:	10222
Lens:	HMG
Filter:	3 green
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air

Model name:	O2 SPECTRUM (5)
Item number:	10231
Lens:	HMG
Filter:	5 dark green
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding, gas cutting and welding

Model name:	O2 SPECTRUM (6)
Item number:	10232
Lens:	HMG
Filter:	6 dark green
Use:	medium power gas welding and cutting

Model name:	O2 SPECTRUM (7)
Item number:	10233
Lens:	HMG
Filter:	6 dark green
Use:	high power gas welding and cutting

O34 PROGRESS protective spectacles



Universal protective spectacles providing protection against hard particles impact (0.5 J, V=5.1 m/s). Reliable plastic frame, widened temples with louvers for ventilation, temple length adjustment, lateral protection due widened temples, hardened mineral lenses.

Features:

- temple length adjustment for good fit;
- wide range of filter lenses;
- hardened mineral glass lenses.

Lens material:

Hardened mineral glass (HMG), clear or colored, characterized by good optical quality and very high surface hardness, that is especially important, therefore protective lens is highly resistant to aggressive chemicals, sparks and molten metal splashes at extremes of temperature. Hardened mineral glass lenses has increased robustness and capable to withstand to hard particles impact.

Lens marking:

2-1.2	UV filter
(RZ)	Manufacturer identification
1	Optical class one
S	Symbol of increased robustness (low energy impact – no more than 0.6 J)
FT	Symbol of mechanical strength (high speed particles low energy impact- 45 m/s) at extremes of temperature (-5°C – 55°C)
K	Symbol of resistance to surface damage by fine particles
N	Symbol of resistance to fogging



Optical class one
Mass: 45 g

Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.

O34 PROGRESS model range



13410

Model name:	O34 PROGRESS
Item number:	13410
Lens:	HMG
Filter:	2-1.2 clear
Use:	grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials



13421

Model name:	O34 PROGRESS
Item number:	13421
Lens:	HMG
Filter:	2.5 gray
Use:	construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses



13422

Model name:	O34 PROGRESS
Item number:	13422
Lens:	HMG
Filter:	3 green
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air



13431

Model name:	O34 PROGRESS
Item number:	13431
Lens:	HMG
Filter:	5 dark green
Use:	eye protection against excessive brightness of sunlight at works connected



13432

Model name:	O34 PROGRESS
Item number:	13432
Lens:	HMG
Filter:	6 dark green
Use:	medium power gas welding and cutting



13433

Model name:	O34 PROGRESS
Item number:	13433
Lens:	HMG
Filter:	7 dark green
Use:	high power gas welding and cutting

011 Jupiter protective spectacles

- Ideal for outdoor work (Construction, oil and gas industry)
- Increase vision sharpness, removing eye stress and fatigue
- Attenuate sun glints from water, ice, snow surfaces
- Polarized lenses block reflected light, improve vision and decrease fatigue at long wearing
- High quality one-piece lens
- Lightweight
- Comfortable fit
- Wide field of view
- Soft inserts in earpieces
- Soft nose bridge



ERC

Optical class one



Sportive design
Trendy colors

Comfortable protection
Two-in-one:
safety & sunglasses

011 Jupiter Space model range

Mass: 28 g



Item number: 11170S	lens: polarized
Lens material:	PC
Filter:	5-3.1 dark gray
Lens marking:	5-3.1 RZ 1 FT
Frame color:	black/white



Item number: 11170SB	lens: polarized
Lens material:	PC
Filter:	5-3.1 dark gray
Lens marking:	5-3.1 RZ 1 FT
Frame color:	black



Item number: 11171S	
Lens material:	PC
Filter:	5-3.1 yellow with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	black/white



Item number: 11172S	
Lens material:	PC
Filter:	5-3.1 purple with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	red/white



Item number: 11173S	
Lens material:	PC
Filter:	5-3.1 green with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	green/black



Item number: 11174S	
Lens material:	PC
Filter:	5-3.1 blue with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	blue/white

011 Jupiter Blue Ray model range

Mass: 24 g



Item number: 11170B	lens: polarized
Lens material:	PC
Filter:	5-3.1 dark gray
Lens marking:	5-3.1 RZ 1 FT
Frame color:	blac



Item number: 11173B	
Lens material:	PC
Filter:	5-3.1 blue with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	white



Item number: 11174B	
Lens material:	PC
Filter:	5-3.1 blue with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	blue

O11 Jupiter Foton model range

Mass: 26 g



Item number: 11170P <i>lens: polarized</i>	
Lens material:	PC
Filter:	5-3.1 dark gray
Lens marking:	5-3.1 RZ 1 FT
Frame color:	gray



Item number: 11171P	
Lens material:	PC
Filter:	5-3.1 yellow with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	gray



Item number: 11172P	
Lens material:	PC
Filter:	5-3.1 green with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	gray



Item number: 11173P	
Lens material:	PC
Filter:	5-3.1 red with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	gray



Item number: 11174P	
Lens material:	PC
Filter:	5-3.1 blue with mirror coating
Цвет оправы:	5-3.1 RZ 1 FT
Градационный шифр:	gray

O11 Jupiter Fusion model range

Mass: 28 g



Item number: 11170F <i>lens: polarized</i>	
Lens material:	PC
Filter:	5-3.1 dark gray
Lens marking:	5-3.1 RZ 1 FT
Градационный шифр:	gray



Item number: 11171F	
Lens material:	PC
Filter:	5-3.1 yellow with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	gray



Item number: 11172F	
Lens material:	PC
Filter:	5-3.1 red with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	gray



Item number: 11174F	
Lens material:	PC
Filter:	5-3.1 blue with mirror coating
Lens marking:	5-3.1 RZ 1 FT
Frame color:	gray



view through a mirror coated lens



view through a polarized lens



O17 HAMMER ACTIVE StrongGlass™ protective spectacles (PC)

11737



Lightweight modern universal spectacles with wide field of view. Provides protection against high velocity particles (low energy impact $V=45$ m/s). Resistant to alkali and acid solutions.

Features:

- wide temple for reliable lateral protection;
- wide field of view;
- simple and reliable design;
- protection against UV radiation.

Lens material:

- **PC** - polycarbonate. Provides protection against high speed particles and optical radiation

Coating.

- **PC StrongGlass™** - high grade double-sided water resistant hard/anti-fog coating;
- **super** - generic double-sided water resistant hard/anti-fog coating.

Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.

11715



Model name:	O17 HAMMER ACTIVE
Item number:	11715
Lens:	PC super
Filter:	5-3.1 gray with mirror coating

Use:

works at bright sunlight, sunglare, sun glints from water, ice, snow surfaces, wet asphalt; recommended to drivers, those who plays water and winter sports and who need more protection against sun glare and glint; it also should be used as trendy sunglasses

11727



Model name:	O17 HAMMER ACTIVE
Item number:	11727
Lens:	PC StrongGlass™
Filter:	5-3.1 dark gray
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air

11755



Model name:	O17 HAMMER ACTIVE
Item number:	11755
Lens:	PC StrongGlass™
Filter:	5-2.5 gray
Use:	construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be use as high quality sunglasses

11757



Model name:	O17 HAMMER ACTIVE CONTRAST
Item number:	11757
Lens:	PC StrongGlass™
Filter:	2-1.2 amber
Use:	where contrast increasing required, high precision works at insufficient illumination, machining, in medical institutions



Optical class one

Mass: 23 g

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

RZ15 START protective spectacles
11540**BASIC PRICE!**

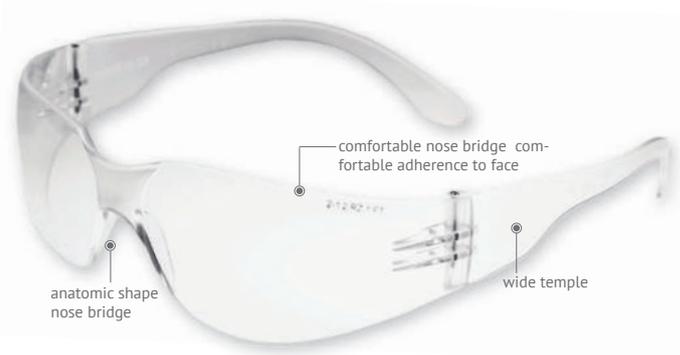
Model name:	RZ-15
Item number:	11542
Lens:	PC
Filter:	5-3.1 dark gray
Use:	eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air

11542



Model name:	RZ-15 START CONTRAST
Item number:	11545
Lens:	PC
Filter:	2-1.2 amber
Use:	where contrast increasing required, high precision works at insufficient illumination, machining, in medical institutions

11545



Lightweight modern universal spectacle with wide field of view. Provides protection against high speed particles (low energy impact $V=45$ m/s). Resistant to alkali and acid solutions.

Features:

- wide temple for reliable lateral protection;
- wide field of view;
- simple and reliable design;
- protection against UV radiation.

Lens material:

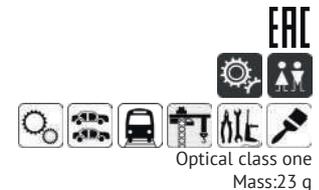
- **PC** - polycarbonate. Provides protection against high velocity particles and optical radiation

Use:

all types of works that require precision and quality protection at extremes of temperature, high humidity, increased intensity of labor in various branches of industry, such as metallurgy, machine building, oil and gas recovery and processing etc.

Lens marking:

2-1,2	UV filter
(RZ)	Manufacturer identification
1	Optical class one
FT	Symbol of mechanical strength (high velocity particles low energy impact $V=45$ m/s) at extremes of temperature (-5°C – 55°C)



Optical class one
Mass:23 g

Safety spectacles for protection against mechanical risks.

O5 Tochnost and O8 HAMMER Tochnost (Tochnost = Precise in Russian) Corrective safety spectacles generally are universal eye protectors providing protection against mechanical effects such as hard particles, chips etc.

ADVANAGES

- ✓ Low frame mass – lightweight for comfortable prolong wearing over 8 hours working shift.
- ✓ Wide field of view and highest optical quality guarantee distortions absence
- ✓ Reliable protection against mechanical effects and non-ionizing radiation.

O8 HAMMER Tochnost frame with advanced top, bottom and lateral protection available in wide color range (corporate style). We recommend frames made of transparent material for continuous use.

O5 Tochnost frames available with detached transparent side shields providing lateral protection. No peripheral vision limitations.

Protective lens choice

	Standart	Premium	AIKO Premium	RX	
O5 TOCHNOST	10519	10514	10558	10518	-
O8 HAMMER Tochnost	10819	10814	-	-	10818
Lens material	PC	RAV-7	MR-8 Plus	MR-8 plus Blue cut	Trivex (NXT)
Coating	SHMC	SHMC	SHMC+AIKO	SHMC+AIKO	SHMC
Power range, D	From -6.0 to +6.0 D cylinder up to 2.0 D	From -8.0 to +6.0 D cylinder up to 4.0 D Bifocal, progressive	From -10.0 to +6.0 D cylinder up to 2.0 D	From -6.0 to +4.0 D cylinder up to 2.0 D	From -6.0 to +6.0 D cylinder up to 2.0 D

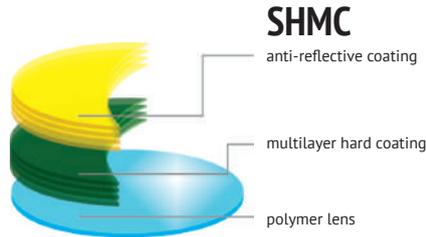


Any lens is available in O5 Tochnost frame.
Lens type depends on prescription complexity.

Lens coatings

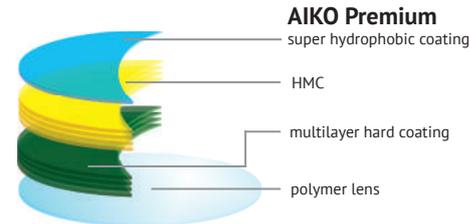
SHMC (SuperHardMultiCoating)

Hard, multilayer anti-reflective vacuum coating on the base of quartz. This coating provides protection against scratches, contamination and static electricity. It also improves visual acuity due reflections elimination.



AIKO PREMIUM (Superhydrofobic)

Innovative premium vacuum coating with advanced performance. It provides protection against scratches, contamination and static electricity. It also improves visual acuity due reflections elimination. Additionally, it has water-repellent properties and prevents fat contamination.



LENS MATERIAL	CHARACTERISTICS				LENS MARKING			PROTECTIVE PROPERTIES				
	Density, g/cm ³	Index of refraction	Abbe value	Power range available, diopters	Supplier ID	Optical class	Mechanical strength	Resistance to chemicals	Resistance to sparks	Resistance to sparks, %	Coating	
RAV 7	1,3	1,5	58	-8.0/+6.0 Cyl 4.0 Bifocals/ Progressives	RZ	1	F	++	++	98	++	SHMC
MR-8 plus	1,3	1,6	41	-10.0/+6.0 Cyl 2.0	RZ	1	F	++	++	100	++	AIKO Premium
MR-8 plus Blue Cut	1,3	1,6	41	-6.0/+4.0 Cyl 2.0	RZ	1	F	++	++	100+HEV	++	AIKO Premium +blue light attenuation
PC	1,2	1,59	30	-6.0/+4.0 Cyl 2.0.	RZ	1	F	+	++	100	++	SHMC
TRIVEX	1,1	1,53	45	-6.0/+4.0 Cyl 2.0	RZ	1	F	+++	++	100	++	SHMC

* - HEV- High Energy Visible light

+ - less resistant

++ - resistant

+++ - highly resistant

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

05 TOCHNOST
Item number: 10519 05 TOCHNOST Standart

Availability	from -6.00 to +6.00 D in 0.25 D increment Cylinder up to 2.0 D
Lens material	Polycarbonate (PC)
Coating	SHMC (SuperHardMultiCoating)

Item number: 10514 05 TOCHNOST Premium

Availability	from -8.00 to +6.00 D in 0.25 D increment Cylinder up to 4.0 D Bifocals, Progressives
Lens material	RAV 7
Coating	SHMC (SuperHardMultiCoating)

Item number: 10518 05 TOCHNOST RX

Availability	from -6.00 to +6.00 D Cylinder up to 2.0 D
Lens material	MR-8 plus Blue Cut
Coating	SuperHardMultiCoating + AIKO PREMIUM

Item number: 10558 05 TOCHNOST AIKO Premium

Availability	from -10.00 to +6.00 D in 0,25 D increment Cylinder up to 2.0 D
Lens material	MR-8 plus
Coating	SuperHardMultiCoating + AIKO PREMIUM

O5 TOCHNOST. Frame choice

RX UG-19:

- ✓ Anatomic shape nose bridge
- ✓ Any type of correction
- ✓ Detachable side shields
- ✓ Suitable to any face shape
- ✓ For office work – stylish frame
- ✓ Visit to production site – protection against hard high velocity particle

Two in one feature:

work with a computer and at the production site

TOCHNOST RX UG-19 Blue		<i>unisex</i>	
Frame material:	plastic	Temple length:	135 mm
Frame color:	blue	Frame mass:	28 g
Lens size:	54 mm	Lens shape:	oval
DBL	19 mm	Trend:	modern style



TOCHNOST RX UG-19 Blue

TOCHNOST RX UG-19 Clear/Green		<i>unisex</i>	
Frame material:	plastic	Temple length:	135 mm
Frame color:	transparent green	Frame mass:	28 g
Lens size:	54 mm	Lens shape:	oval
DBL	19 mm	Trend:	modern style



TOCHNOST RX UG-19 Clear/Green

Available item numbers:
10514, 10518, 10558



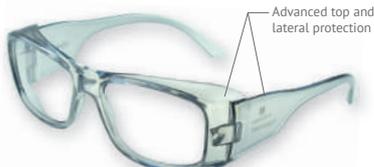
TOCHNOST OP

- ✓ Anatomic shape nose bridge
- ✓ For any lens insertion
- ✓ Lightweight
- ✓ Suitable to any face shape

TOCHNOST OP-04



TOCHNOST OP-04 C1



Modern style and advanced protection

TOCHNOST OP-04		<i>unisex</i>	
Frame material:	plastic	Temple length:	135 mm
Frame color:	green gloss	Frame mass	23 g
Lens size:	54 mm	Lens shape:	rectangular
DBL:	16 mm	Trend:	modern style

TOCHNOST OP-04		<i>unisex</i>	
Frame material:	plastic	Temple length:	145 mm
Frame color:	gray gloss	Frame mass	22 g
Lens size:	55 mm	Lens shape:	rectangular
DBL:	17 mm	Trend:	top seller

TOCHNOST OP-21



TOCHNOST OP-21 C2



TOCHNOST OP-21		<i>male</i>	
Frame material:	plastic	Temple length:	140 mm
Frame color:	gray	Frame mass	26 g
Lens size:	57 mm	Lens shape:	rectangular
DBL:	15 mm	Trend:	modern style

TOCHNOST OP-21		<i>unisex</i>	
Frame material:	plastic	Temple length:	145 mm
Frame color:	clear gloss	Frame mass	22 g
Lens size:	55 mm	Lens shape:	rectangular
DBL:	17 mm	Trend:	modern style

Available item numbers:
**10514, 10518,
 10519, 10558**

✓ Soft silicone nose pads

✓ Protective side shields for lateral protection

✓ Most popular model

TOCHNOST 8369

✓ Suitable to any face shape and any lens type



TOCHNOST 8369		<i>unisex</i>	
Frame material:	metal	Temple length:	145 mm
Frame color:	gray	Frame mass	23 g
Lens size:	52 mm	Lens shape:	oval
DBL:	19 mm	Trend:	top seller

TOCHNOST MMK-5

✓ Suitable to any face shape and any lens type



TOCHNOST MMK-5		<i>unisex</i>	
Frame material:	metal	Temple length:	145 mm
Frame color:	black	Frame mass	29 g
Lens size:	542 mm	Lens shape:	oval
DBL:	21 mm	Trend:	top seller

Available item numbers:

**10514, 10518,
10519, 10558**

✓ Sportive plastic frame

✓ Suitable for narrow face

✓ Anatomic shape nose bridge

✓ Detachable seal prevents dust ingress

✓ Ventilation holes for adequate air exchange

✓ Flexible temples

TOCHNOST IRO76 gray

detachable seal



TOCHNOST IRO76 gray		<i>unisex</i>	
Frame material:	plastic	Temple length:	133 mm
Frame color:	gray	Frame mass	41 g
Lens size:	56 mm	Lens shape:	oval
DBL:	18 mm	Trend:	sportive style

TOCHNOST IRO76 brown



TOCHNOST IRO76 brown		<i>unisex</i>	
Frame material:	plastic	Temple length:	133 mm
Frame color:	brown	Frame mass	41 g
Lens size:	56 mm	Lens shape:	oval
DBL:	18 mm	Trend:	sportive style

Seal/Tochnost IRO76 frame Assembly



Item numbers: **10519, 10558**

Lens power range: from -3.0 to +5.0
PD: 58-66 mm

No bifocals & progressives are available in this frame

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

✓ Anatomic shape nose bridge

✓ Detachable side shields for lateral protection

✓ Good peripheral view

TOCHNOST OP-30



TOCHNOST OP-30/1



TOCHNOST OP-30		<i>Unisex</i>	
Frame material:	plastic	Temple length:	135 mm
Frame color:	black (C511)	Frame mass	29 g
Lens size:	53 mm	Lens shape:	oval
DBL:	18 mm	Trend:	top seller

TOCHNOST OP-30/1		<i>Unisex</i>	
Frame material:	plastic	Temple length:	135 mm
Frame color:	gray (C523)	Frame mass	29 g
Lens size:	53 mm	Lens shape:	oval
DBL:	18 mm	Trend:	top seller

Available item numbers:

**10514, 10518,
10519, 10558**

Any item number for O5 Tochnost frame is available



All spectacles in O5 Tochnost frame are delivering with semi-rigid case and cleaning cloth.

O8 Hammer TOCHNOST

Item number: 10819 O8 Hammer TOCHNOST Standart

Lens power range	from -6.00 D to +6.00 D in 0.25 D increment Cylinder up to 2.00 D
Lens material	Polycarbonate
Coating	SHMC (SuperHardMultiCoating)

Item number: 10818 O8 Hammer TOCHNOST RX

Lens power range	from -6.00 D to +6.00 D in 0.25 D increment Cylinder up to 2.00 D
Lens material	TRIVEX
Coating	SHMC (SuperHardMultiCoating)

All spectacles in O5 Tochnost frame are delivering with plastic case and cleaning cloth.



Item number: 10814 O8 Hammer TOCHNOST Premium

Lens power range	from -8.00 D to +6.00 D in 0.25 D increment Cylinder up to 4.00 D Bifocals, Progressives
Lens material	RAV 7
Coating	SHMC (SuperHardMultiCoating)



08 Hammer TOCHNOST. Frame choice

- ✓ Modern plastic frame with wrap-around front
- ✓ Advanced top, bottom and lateral protection
- ✓ 120 degrees viewing angle
- ✓ Small size oval lenses
- ✓ Anatomic shape nose bridge
- ✓ Customer logo application in four colors is available
- ✓ Possibility to use in higher temperature environments

Frame # 2635 - top, bottom and lateral protection

Frame color: clear front/red temples



Hammer TOCHNOCT	<i>unisex</i>		
Frame material:	plastic	Frame mass	17 g
Lens size:	53 mm	Lens shape:	oval
DBL:	18 mm	Trend:	classic
Temple length:	130 mm		

Frame # 2747 - top, bottom and lateral protection, top and bottom vent holes

Frame color: clear front/red temples



Hammer TOCHNOCT	<i>unisex</i>		
Frame material:	plastic	Frame mass	65 g
Lens size:	54 mm	Lens shape:	oval
DBL:	21 mm	Trend:	classic
Temple length:	130 mm	PD > 62 mm	

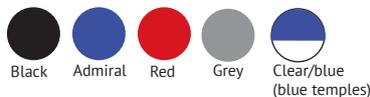
Frame # 0681 - top, bottom and lateral protection, top and bottom vent holes, reduced front size

Frame color: clear front/red temples



Hammer TOCHNOCT	<i>unisex</i>		
Frame material:	plastic	Frame mass	16 g
Lens size:	51 mm	Lens shape:	oval
DBL:	17 mm	Trend:	classic
Temple length:	130 mm	PD > 58 mm	

Possible front colors:



Available item numbers:
10814, 10818, 10819

Hammer TOCHNOST OP 04/1



- ✓ Suitable to any lenses insertion
- ✓ Anatomic shape nose bridge
- ✓ Side shields for lateral protection

Hammer TOCHNOST OP 04/1		<i>unisex</i>	
Frame material:	plastic	Temple length:	130 mm
Frame color:	red	Frame mass	32 g
Lens size:	55 mm	Lens shape:	oval
DBL:	17 mm	Trend:	modern style

Hammer TOCHNOST OP 01



- ✓ Anatomic shape nose bridge
- ✓ Soft TPE inserts in earpieces
- ✓ Advanced top and lateral protection
- ✓ No peripheral vision limitations

Hammer TOCHNOST OP 1		<i>unisex</i>	
Frame material:	plastic	Temple length:	131 mm
Frame color:	red	Frame mass	32 g
Lens size:	54 mm	Lens shape:	oval
DBL:	17 mm	Trend:	modern style

Any item number for O8 Hammer TOCHNOST frame is available

Hammer TOCHNOST OP 23



- ✓ Increased robustness
- ✓ Anatomic shape nose bridge
- ✓ Wide temples for lateral protection
- ✓ Soft TPE inserts in earpieces
- ✓ Increased viewing angle

Hammer TOCHNOST OP 23		<i>unisex</i>	
Frame material:	plastic	Temple length:	126 mm
Frame color:	черный	Frame mass	37 g
Lens size:	56 mm	Lens shape:	oval
DBL:	18 mm	Trend:	sportive style

Hammer TOCHNOST OP 33



- ✓ Anatomic shape nose bridge
- ✓ Soft TPE inserts in earpieces
- ✓ Advanced top, bottom and lateral protection

Hammer TOCHNOST OP 33		<i>unisex</i>	
Frame material:	plastic	Temple length:	126 mm
Frame color:	blue	Frame mass	40 g
Lens size:	57 mm	Lens shape:	oval
DBL:	17 mm	Trend:	sportive style

Available item numbers:
10814, 10818, 10819

Safety spectacles for protection against optical risks

O13 Favori® Office

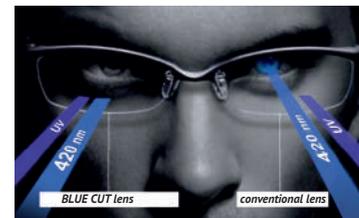
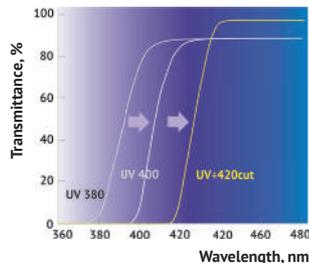
Safety spectacles for work with a computer.



Growth of knowledge about harmful effect of the UV radiation on a human eye formerly motivated manufacturers for creation of lens materials that could block UV radiation up to 380 nm wavelength. Materials with such spectral characteristics became a common standard for quality ophthalmic lenses manufacturing. However, subsequent data about short wave radiation negative effect has shown a necessity of further short wave limitation up to 400 nm. The latest studies persuasively proved that blue light is also harmful for the eye health that brought appearance of new materials called UV+Blue Cut. These materials can block short wave optical radiation up to 420 nm wavelength. OJSC Suksun Optical & Mechanical plant is going with the times and so uses most modern materials in its manufacture. One of such materials is used for lenses intended for O13 Favori Office safety corrective spectacles. From 2018 we use only UV+420 Blue Cut lenses for O13 Favori Office corrective safety spectacles that protect computer users not only against UV radiation but high energy visible light as well.

State-of-the Art BLUE CUT lens has no contraindications.

It is intended for prolong wearing.



UV и HEV

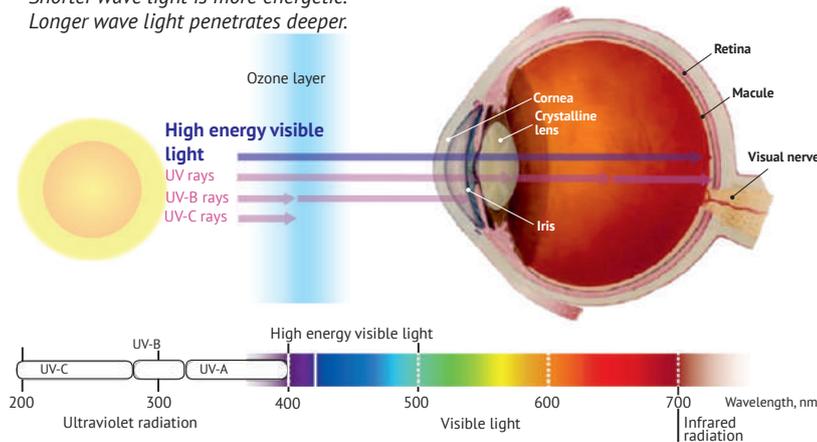
Negative influence of the blue light to the human eye

- It may violate natural circadian rhythm of a human being ("biological clock")
- It decreases melatonin level, contributes serious diseases
- It easily scatters, decreases contrast and sharpness, decreases visual acuity
- It may cause changes that rise to ophthalmic diseases

High energy visible light riches a retina

Shorter wave light is more energetic.

Longer wave light penetrates deeper.



Outdoor:

- sunligh
- rain
- cloud

Indoor:

- computers
- tablets
- fluorescent lamps

Radiation	Wave length band, nm	Energy, eV	Vulnerable portion of an eye	Possible risk
UV-C	200-280	6.20-4.55	None	No risk due complete absorption by ozone layer
UV-B	280-320	4.55-3.84	Cornea	Fotokeratitis
UV-A	320-3800	3.84-3.10	Crystalline lens	Cataract, Pterygium
HEV	380-420	3.10-2.48	Retina, esp. macule	AMD – Age-related macule degeneration

Special computer spectacles are excellent eye protection:

- suitable for people with normal vision as well as for ones with bad sight;
- remove eye fatigue, sense of "sandpaper" in eyes, drowsiness;
- reduce brightness of computer monitor screen due selective light absorption;
- improve contrast and sharpness of the image.



O13 Favori® Office

Item number: 11319 O13 Favori® Office Standart

Lens power range	from -6.00 D to +6.00 D in 0.25 D increment. Cylinder: no available
Lens material	RAV 7 BLUE CUT
Coating	HMC*
Lens color	clear

Item number: 11314 O13 Favori® Office Premium

Lens power range	from -8.00 D to +6.00 D in 0.25 D increment. Cylinder up to 2.00 D
Lens material	RAV 7 BLUE CUT
Coating	HMC*
Lens color	clear

Item number: 11318 O13 Favori® Office RX

Lens power range	Customized progressive
Lens material	RAV 7 BLUE CUT
Coating	HMC*
Lens color	clear

Item number: 11358 O13 Favori® Office Navigator

Lens power range	more than ± 6.00 D. Cylinder more than 2.00 D
Lens material	RAV 7 BLUE CUT
Coating	HMC*
Lens color	clear

*HMC = Hard Multicoating

Driver's spectacles O7 Favori® Driver

Today a car is not simply a vehicle, it is lifestyle. Now a person spend the lion's share of his/her time driving a car and giving attention to the road. Good visibility and increased attention are very important on the road so driver's spectacles is not a luxury but a mean of safety driving.

Insufficient visibility is frequently a reason of road accidents. Direct sunlight, sun glints, oncoming car headlight dazzles a driver. In twilight time or in bad weather conditions it is not possible to see any obstacle on the road. Special correctly selected spectacle will improve safety and comfort of the driving.

Conventional sunglasses or spectacles with clear polymer lenses are dangerous for individuals whose vision is not 100%. They need corrective spectacles. The advantage of the O7 Favori Driver spectacles is that it is approved as eye protector accordingly to national Technical Regulation and applicable standards.

The O7 Favori Driver spectacles will protect you against oncoming headlight and bright sunlight, improve contrast in bad weather conditions such as rain or a fog.



Lens choice

O7 Favori® Driver	Standart	Premium	RX
Item number	10719	10714	10718
Material	RAV 7	SR-56	RAV-7
HMC Hard anti-reflective coating	+	+	-
HC Hard coating	-	-	+
Lens color	yellow 	gray (photochromic) 	Gray (polarized) 
Lens power range	From -6.00D to +4.00 D, 0.25 D increment, Cylinder up to 2.00 D	From -6.00D to +4.00 D, 0.25 D increment, Cylinder up to 2.00 D	From -6.00 D to plano

07 Favori® Driver

Item number: 10719 07 Favori® Driver Standart

Lens power range	from -6.00 D to +4.00 D in 0.25 D increment, Cylinder up to 2.00 D
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Lens material	RAV 7
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Coating	HMC
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Use all-weather driver's spectacles (yellow filter)



Without spectacles



With 07 Favori® Driver Standart spectacle

Item number: 10714 07 Favori® Driver Premium

Lens power range	from -6.00 D to +4.00 D in 0.25 D increment, Cylinder up to 2.00 D
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Lens material	SR-56
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Coating	photochromic
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Use for continuous wearing



At gloomy weather



At driving, at party cloudy



At bright sunlight

Item number: 10718 07 Favori® Driver RX

Lens power range	from -6.00 D to plano in 0.25 D increment
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Lens material	RAV 7 BLUE CUT
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Use	for driving at bright sunlight
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Without spectacle



With 07 Favori® Driver RX spectacle

O13 Favori® Office and O7 Favori® Driver. Frame choice

Favori® 4321



Favori® 4321		<i>unisex</i>	
Frame material:	metal	Temple length:	145 mm
Frame color:	gold (C6)	Frame mass:	18 g
Lens size:	53 mm	Lens shape:	oval
DBL:	18 mm	Trend:	top seller

Favori® 4325



Favori® 4325		<i>unisex</i>	
Frame material:	metal	Temple length:	145 mm
Frame color:	gold (C6)	Frame mass:	16 g
Lens size:	51 mm	Lens shape:	oval
DBL:	19 mm	Trend:	modern style

Favori® 8498



Favori® 8498		<i>male</i>	
Frame material:	metal	Temple length:	150 mm
Frame color:	gold (C6)	Frame mass:	19 g
Lens size:	56 mm	Lens shape:	rectangular
DBL:	18 mm	Trend:	top seller

Favori® Z2212-123



Favori® Z2212-123		<i>female</i>	
Frame material:	plastic	Temple length:	136 mm
Frame color:	purple (C1)	Frame mass:	25 g
Lens size:	51 mm	Lens shape:	oval
DBL:	16 mm	Trend:	modern style

Favori® Z2212-124



Favori® Z2212-124		<i>female</i>	
Frame material:	plastic	Temple length:	135 mm
Frame color:	dark red (C1)	Frame mass:	25 g
Lens size:	51 mm	Lens shape:	oval
DBL:	17 mm	Trend:	modern style

Favori® Z2212-125



Favori® Z2212-125		<i>female</i>	
Frame material:	metal	Temple length:	140 mm
Frame color:	brown crystal	Frame mass:	25 g
Lens size:	51 mm	Lens shape:	oval
DBL:	15 mm	Trend:	modern style

Favori® Z2212-126



Favori® Z2212-126		<i>female</i>	
Frame material:	plastic	Temple length:	135 mm
Frame color:	mat dark red (C1)	Frame mass	25 g
Lens size:	51 mm	Lens shape:	oval
DBL:	17 mm	Trend:	modern style

Favori® Z2212-127



Favori® Z2212-127		<i>female</i>	
Frame material:	plastic	Temple length:	135 mm
Frame color:	vinous (C1)	Frame mass	25 g
Lens size:	51 mm	Lens shape:	oval
DBL:	17 mm	Trend:	modern style

Favori® Z2212-143



Favori® Z2212-143		<i>female</i>	
Frame material:	metal	Temple length:	135 mm
Frame color:	mat gold (C1)	Frame mass	18 g
Lens size:	53 mm	Lens shape:	oval
DBL:	17 mm	Trend:	top seller

Favori® Z2212-159



Favori® Z2212-159		<i>unisex</i>	
Frame material:	plastic	Temple length:	140 mm
Frame color:	black crystal (C1)	Frame mass	25 g
Lens size:	54 mm	Lens shape:	rectangular
DBL:	15 mm	Trend:	top seller

Favori® Z2212-166



Favori® Z2212-166		<i>unisex</i>	
Frame material:	plastic	Temple length:	140 mm
Frame color:	blue (C1)	Frame mass	25 g
Lens size:	52 mm	Lens shape:	rectangular
DBL:	16 mm	Trend:	top seller

Favori® Z2212-167



Favori® Z2212-167		<i>unisex</i>	
Frame material:	plastic	Temple length:	135 mm
Frame color:	mat brown (C1)	Frame mass	25 g
Lens size:	51 mm	Lens shape:	rectangular
DBL:	17 mm	Trend:	top seller

Favori® Z2212-168



Favori® Z2212-168		<i>male</i>	
Frame material:	plastic	Temple length:	140 mm
Frame color:	dark gray (C1)	Frame mass	25 g
Lens size:	54 mm	Lens shape:	rectangular
DBL:	17 mm	Trend:	modern style

O13 Favori® Office and O7 Favori® Driver spectacles are delivering with plastic case and cleaning cloth



NEW!

O13 Favori® Office. Frame Choice

Favori® Z2712-264



Favori® Z2712-264		<i>unisex</i>	
Frame material:	metal	Temple length:	140 mm
Frame color:	brown	Frame mass	25 g
Lens size:	57 mm	Lens shape:	rectangular
DBL:	18 mm	Trend:	classic

Favori® Z2712-401



Favori® Z2712-401		<i>unisex</i>	
Frame material:	metal	Temple length:	140 mm
Frame color:	brown	Frame mass	24 g
Lens size:	54 mm	Lens shape:	rectangular
DBL:	17 mm	Trend:	classic

Favori® Z2712-444



Favori® Z2712-444		<i>unisex</i>	
Frame material:	plastic	Temple length:	140 mm
Frame color:	black	Frame mass	19 g
Lens size:	51 mm	Lens shape:	round
DBL:	17 mm	Trend:	modern style

Favori® Z2712-413



Favori® Z2712-413		<i>female</i>	
Frame material:	metal	Temple length:	138 mm
Frame color:		Frame mass	19 g
Lens size:	53 mm	Lens shape:	oval
DBL:	18 mm	Trend:	classic

Favori® Z2712-417



Favori® Z2712-417		<i>unisex</i>	
Frame material:	combined	Temple length:	140 mm
Frame color:	blue-black	Frame mass	17 g
Lens size:	54 mm	Lens shape:	rectangular
DBL:	17 mm	Trend:	modern style

Favori® Z2712-142



Favori® Z2712-142		<i>unisex</i>	
Frame material:	combined	Temple length:	140 mm
Frame color:	blue-black	Frame mass	12 g
Lens size:	54 mm	Lens shape:	rectangular
DBL:	17 mm	Trend:	modern style

Favori® Z2712-605



Favori® Z2712-605		<i>unisex</i>	
Frame material:	plastic	Temple length:	140 mm
Frame color:	brown	Frame mass	12 g
Lens size:	54 mm	Lens shape:	rectangular
DBL:	17 mm	Trend:	modern style

Favori® Z2712-407



Favori® Z2712-407		<i>unisex</i>	
Frame material:	metal	Temple length:	145 mm
Frame color:	C11	Frame mass	22 g
Lens size:	56 mm	Lens shape:	rectangular
DBL:	19 mm	Trend:	classic

Favori® Z2712-518



Favori® Z2712-518		<i>unisex</i>	
Frame material:	metal	Temple length:	145 mm
Frame color:	black	Frame mass	27 g
Lens size:	56 mm	Lens shape:	oval
DBL:	17 mm	Trend:	classic

Favori® Z2712-454



Favori® Z2712-454		<i>female</i>	
Frame material:	combined	Temple length:	140 mm
Frame color:	blue/steel	Frame mass	20 g
Lens size:	52 mm	Lens shape:	"cat eye"
DBL:	15 mm	Trend:	modern style

Favori® Z2712-410



Favori® Z2712-410		<i>female</i>	
Frame material:	metal	Temple length:	145 mm
Frame color:	mat gold	Frame mass	28 g
Lens size:	57 mm	Lens shape:	rectangular
DBL:	19 mm	Trend:	modern style

cases

Universal rigid fabric case with logo and snap hook

Item number: 00801

Covered inside with fabric that polishes spectacles surfaces. Suitable for all spectacles.

Snap hook for fastening to a belt, bag, overall. Welcro for attachment to the waist belt

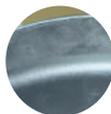


Plastic case with ROSOMZ® logo

Item number: 00802

Come with O8 spectacles, also suitable for O2, O15, O17, O34.

Using a case, you prolong spectacle working life. Anti-slipping coating inside.



anti-skid coating inside

Universal soft case with logo.

Item number: 00803

Usable soft case made of microfibre. Suitable for lenses cleaning with its inner side.

Suitable for all spectacle models.



Universal semi-rigid case with logo

Item number: 00812

Come with O5 spectacles. Prevents damage and contamination of the spectacle, prolongs spectacle working life. Case equipped with special clip that prevents spectacle falling out. Suitable for O2, O5, O7, O8, O13, O15, O17, O34



Dimensions: 10 x 18,5 cm

Universal rigid case with zipper and ROSOMZ® logo

Item number: 00816

Stylish, usable rigid case with zipper for spectacles storing.

Using a case, you prolong spectacle working life



Universal rigid case with zipper and ROSOMZ® logo

Item number: 00818

Stylish, usable rigid case with zipper for spectacles storing.

Using a case, you prolong spectacle working life



Plastic case with ROSOMZ® logo

Item number: 00819

Covered inside with fabrics that polishes spectacles surfaces. Suitable for all spectacles models



Universal soft case-cleaning cloth with colored printing

Item number: 00863

A nice case with colored printed image, that can be used as cleaning cloth.

Easily removes fingerprints and other contamination from lens surfaces



Cleaning clothes and cords

Item number: 00804 Branded cleaning cloth

Effectively and quickly removes fingerprints and another contamination from lenses. Does not leave traces, polishes lens surfaces.

Dimensions: 15 x 18 cm.



Item number: 00808 Microfibre cleaning cloth with ROSOMZ® logo

High quality cleaning cloth for spectacles and computer monitor screen cleaning. Removes contamination, polishes surface, does not leave traces.

Double-sided color print. Individual packing.

Dimensions: 15 x 18 cm.

Density 330 g/m²



Item number: 00809 Cord for spectacle with ROSOMZ® logo

Stylish cord with temple holders and ROSOMZ® logo.

Suitable for any spectacles, usable due adjustable length.

Length: 30 cm



Item number: 00805 Cord for spectacle

Capron cord with silicone loops for attachment to temples.

Color: black.

Length: 70 cm.

Pack of 12 pieces.



Cleaning materials

Item number: 00701 Cleaning spray

Spray for spectacles cleaning prevents lens fogging, effectively removes contamination, prolongs lens working life. Spray formula is safe for any lens and coating types.

Packing: 30 ml bottle.



Item number: 00702 Spectacle cleaning set

This set is safe for all types of lenses, plastics, TV and monitor screen.

Comprises of 30 ml bottle with spray and cleaning cloth.



Item number: 00703 ROSOMZ® cleaning spray

Spray for spectacles cleaning prevents lens fogging, effectively removes contamination, prolongs lens working life.

Packing: 500 ml bottle



Item number: 00704 Wet cleaning clothes set

Use: lens and monitor screen cleaning.

Branded packing of 100 pieces.



Item number: 00707 Dropping bottle

Dropping bottle with anti-fogging fluid.

Packing: 15 ml bottle.



Accessories for spectacle care. Cleaning station.

ROSOMZ® cleaning station provides spectacle care at production site and office.

The cleaning station comprises of:

cleaning clothes (pack of 700 pieces) item number 00892 and ROSOMZ® **cleaning spray** in 500 ml bottle item number 00703.

Spray prevents lens fogging, effectively removes contamination and electrostatic charge, prolongs lens working life.

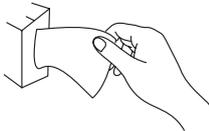


00775

**Special formula is safe
and effective for any
lens and coating**

Use:

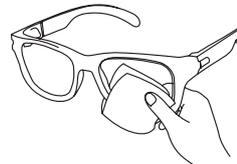
1 tear off one cleaning cloth from the right or from the left



2 sprinkle the cloth with spray



3 wipe both surfaces of the lens.



PANORAMA (PL) protective goggles



TOP SELLER!

possible to wear with corrective spectacles

Goggles with panoramic protective lens made of clear hard **Plexiglas®** material provides protection against high velocity particles and UV radiation. Effective ventilation system prevents lens fogging. Protective lens is resistant to chemicals, such as solutions of alkali and acid. Soft PVC frame with wide contact line provides adherence to face without excessive pressure that might cause discomfort and fatigue. Adjustable headband reliably retains the goggles on the user's head. The goggles does not contain metal parts and provide reliable electrical insulation.

* Models with PU foam seal covered with soft fabric provides additional comfort at cold operation or high humidity environments.

Ventilation types:

- **Direct ventilation** - air enters into the space between frame and lens through vent holes in the frame. This reduces a possibility of lens fogging and temperature rise;
- **Indirect ventilation** - air enters into the space between frame and lens through ventilation devices. This reduces a possibility of lens fogging, temperature rise and provides protection against dust and droplets of liquid. This type of goggles uses for gas welding and other works connected with optical radiation,;
- **No ventilation** - air does not enter into the space between frame and lens. Generally such goggles are used at work with chemicals that irritate eyes as a rule with respirator.



Optical class one
Mass: 110 g

Use:

eye protection against shavings and chips at metal and other materials finishing, particles of stone, ash, coal, cement, droplets of liquids, at work with pneumatic and electric tools, grinding, drilling, milling and other works connected, cold-working, stone dressing, treatment of plastic, wood and other materials.

PANORAMA model range

Recommended filter use:

- **Clear** for eye protection against chips, shaving and debris at metal works and other material treatment, particles of stone, coal, splashes of mortar etc., works with electric and pneumatic tools;
- **2-2 Orange** for advanced eye UV protection (500 nm wave length cut) in medicine at works with UV applicators and germicide lamps.

Recommended ventilation use:

- **Direct ventilation** for eye protection against high velocity particles;
- **Indirect ventilation** for eye protection against high velocity particles, dust and droplets of liquids;
- **No ventilation** for eye protection against high velocity particles, dust and droplets of liquids, eye irritating gases and vapors.



21111



30211



22111



24111



34211



21112

Model name:	ZN11 PANORAMA
Item number:	21111
Lens material:	Plexiglas
Filter:	clear
Frame material:	PVC
Ventilation:	indirect

Model name:	ZN11 PANORAMA
Item number:	24111
Lens material:	Plexiglas
Filter:	clear
Frame material:	PBX
Ventilation:	indirect PU foam seal

Model name:	ZNG1 PANORAMA
Item number:	22111
Lens material:	Plexiglas
Filter:	clear
Frame material:	PVC
Ventilation:	no completed with dropping bottle

Model name:	ZP2 PANORAMA
Item number:	30211
Lens material:	Plexiglas
Filter:	clear
Frame material:	PVC
Ventilation:	direct

Model name:	ZP2 PANORAMA
Item number:	34211
Lens material:	Plexiglas
Filter:	clear
Frame material:	PBX
Ventilation:	direct PU foam seal

Model name:	ZN11 PANORAMA
Item number:	21112
Lens material:	Plexiglas
Filter:	2-2
Frame material:	Evoprene
Ventilation:	indirect

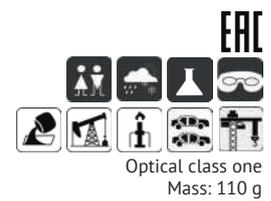
* Plexiglas is replacing by new **Absolute** PC grade which is resistant to abrasive due double sided hard coating.
Please contact sales managers for elaboration.

PANORAMA super (PC) protective goggles



possible to wear with corrective spectacles

- WATER RESISTANT COATING!
- IMPROVED RESISTANCE TO FOGGING!
- TOP SELLER!



Goggles with panoramic protective lens made of **PC** material with **super** coating provides protection against high velocity particles and UV radiation. Effective ventilation system prevents lens fogging. Protective lens is resistant to chemicals, such as solutions of alkali and acid. Soft PVC frame with wide contact line provides adherence to face without excessive pressure that might cause discomfort and fatigue. Adjustable headband reliable retains the goggles on the user's head. The goggles does not contain metal parts and provide reliable electrical insulation.

* Models with PU foam seal covered with soft fabric provides additional comfort at cold operation or high humidity environments.

Ventilation types:

- **Direct ventilation** - air enters into the space between frame and lens through vent holes in the frame. This reduces a possibility of lens fogging and temperature rise;
- **Indirect ventilation** - air enters into the space between frame and lens through ventilation devices. This reduces a possibility of lens fogging, temperature rise and provides protection against dust and droplets of liquid. This type of goggles uses for gas welding and other works connected with optical radiation.;
- **No ventilation** - air does not enter into the space between frame and lens. Generally such goggles are used at work with chemicals that irritate eyes as a rule with respirator.

Use:

eye protection against shavings and chips at metal and other materials finishing, particles of stone, ash, coal, cement, droplets of liquids, at work with pneumatic and electric tools, grinding, drilling, milling and other works connected, cold-working, stone dressing, treatment of plastic, wood and other materials, arc welding at heavy and hazardous conditions.

Lens marking:

2C-1.2	UV filter with good color recognition
Ⓜ(RZ)	Manufacturer identification
1	Optical class one
BT	Symbol of resistance to high velocity particles (medium energy impact 5.9 J, V = 120 m/s) at extremes of temperature (from -5°C to 55°C)
3	Protection against droplets of liquids
4	Protection against dust
5	Protection against gases and fine dust particles
9	Resistance to molten metal splashes and hot solids
N	Resistance to fogging

PANORAMA super (PC) model range

Recommended filter use:

Clear for eye protection against chips, shaving and debris at metal works and other material treatment, particles of stone, coal, splashes of mortar etc., works with electric and pneumatic tools;

Recommended ventilation use:

- **Direct ventilation** for eye protection against high velocity particles;
- **Indirect ventilation** for eye protection against high velocity particles, dust and droplets of liquids;
- **No ventilation** for eye protection against high velocity particles, dust and droplets of liquids, eye irritating gases and vapors.



21130



30130



22130



24130



34130

24130
34130

Model name:	ZN11 PANORAMA
Item number:	21130
Lens material:	PC super
Filter:	clear 2C-1.2
Frame material:	PVC
Ventilation:	indirect

Model name:	ZN11 PANORAMA
Item number:	24130
Lens material:	PC super
Filter:	clear 2C 1-2
Frame material:	PVC
Ventilation:	indirect, PU foam seal

Model name:	ZNG1 PANORAMA
Item number:	22130
Lens material:	PC super
Filter:	clear 2C 1-2
Frame material:	PVC
Ventilation:	no

Model name:	ZP2 PANORAMA
Item number:	30130
Lens material:	PC super
Filter:	clear 2C-1.2
Frame material:	PVC
Ventilation:	direct

Model name:	ZP2 PANORAMA
Item number:	34130
Lens material:	PC super
Filter:	clear 2C-1.2
Frame material:	PVC
Ventilation:	direct, PU foam seal

PANORAMA StrongGlass™ (PC) protective goggles

**NO FOGGING!
NO SCRATCHES!**

Eye protectors



Modern goggles with panoramic protective lens made of **PC** material with **StrongGlass™** coating provides protection against high velocity particles and UV radiation. Effective ventilation system together with double-sided anti-fog/hard coating prevents lens fogging. Protective lens is resistant to chemicals, such as solutions of alkali and acid. Soft frame made of thermoplastic elastomer Evoprene with wide contact line provides good adherence to face without excessive pressure that might cause discomfort and fatigue. Adjustable headband reliable retains the goggles on the user's head. The goggles does not contain metal parts and provide excellent electrical insulation.

Models with PU foam seal covered with soft fabric provides additional comfort at cold operation or high humidity environments.

Ventilation types:

- **Direct ventilation** - air enters into the space between frame and lens through vent holes in the frame. This reduces a possibility of lens fogging and temperature rise;
- **Indirect ventilation** - air enters into the space between frame and lens through ventilation devices. This reduces a possibility of lens fogging, temperature rise and provides protection against dust and droplets of liquid. This type of goggles uses for gas welding and other works connected with optical radiation.;
- **No ventilation** - air does not enter into the space between frame and lens. Generally such goggles are used at work with chemicals that irritate eyes as a rule with respirator.

* Models with PU foam seal covered with soft fabric provides additional comfort at cold operation or high humidity environments.

ERC CE



Optical class one
Mass: 100 g

Use:

eye protection against shavings and chips at metal and other materials finishing, particles of stone, ash, coal, cement, droplets of liquids, at work with pneumatic and electric tools, grinding, drilling, milling and other works connected, cold-working, stone dressing, treatment of plastic, wood and other materials, arc welding at heavy and hazardous conditions.

*For Admiral frame– upon special inquiry

PANORAMA StrongGlass™ (PC) model range


21137



21127



30237



30227



22137



24137



24127



34237



34227

24127 24134 24137
34227 34237
**Recommended
filter use:**

- **Clear** for eye protection against chips, shaving and debris at metal works and other material treatment, particles of stone, coal, splashes of mortar etc., works with electric and pneumatic tools;
- **3 green** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air;

**Recommended
ventilation use:**

- **Direct ventilation** for eye protection against high velocity particles;
- **Indirect ventilation** for eye protection against high velocity particles, dust and droplets of liquids;
- **No ventilation** for eye protection against high velocity particles, dust and droplets of liquids, eye irritating gases and vapors.

Model name:	ZN11 PANORAMA StrongGlass™
Item number:	21137
Lens material:	PC StrongGlass
Filter:	clear 2C-1.2
Frame material:	TPE (Evpoprene)
Ventilation:	indirect
Model name:	ZN11 PANORAMA StrongGlass™
Item number:	24137
Lens material:	PC StrongGlass
Filter:	clear 2C-1.2
Frame material:	TPE (Evpoprene)
Ventilation:	indirect PU foam seal
Model name:	ZN11 PANORAMA StrongGlass™
Item number:	21127
Lens material:	PC StrongGlass
Filter:	3 green
Frame material:	TPE (Evpoprene)
Ventilation:	indirect
Model name:	ZN11 PANORAMA StrongGlass™
Item number:	24127
Lens material:	PC StrongGlass
Filter:	3 green
Frame material:	TPE (Evpoprene)
Ventilation:	indirect PU foam seal
Model name:	ZNG1 PANORAMA StrongGlass™
Item number:	22137
Lens material:	PC StrongGlass
Filter:	clear 2C-1.2
Frame material:	TPE (Evpoprene)
Ventilation:	no

Model name:	ZP2 PANORAMA StrongGlass™
Item number:	30237
Lens material:	PC StrongGlass
Filter:	clear 2C-1.2
Frame material:	TPE (Evpoprene)
Ventilation:	direct
Model name:	ZP2 PANORAMA StrongGlass™
Item number:	34237
Lens material:	PC StrongGlass
Filter:	clear 2C-1.2
Frame material:	TPE (Evpoprene)
Ventilation:	direct PU foam seal
Model name:	ZP2 PANORAMA StrongGlass™
Item number:	30227
Lens material:	PC StrongGlass
Filter:	3 green
Frame material:	TPE (Evpoprene)
Ventilation:	direct, NO FOGGING!
Model name:	ZP2 PANORAMA StrongGlass™
Item number:	34227
Lens material:	PC StrongGlass
Filter:	3 green
Frame material:	TPE (Evpoprene)
Ventilation:	direct PU foam seal

PANORAMA StrongGlass™ (PC) protective goggles



possible to wear with corrective spectacles

**NO FOGGING!
NO SCRATCHES!**

GAS WELDING GOGGLE WITH GRAY FILTER (GOOD COLOR RECOGNITION) FOR THE FIRST TIME ON THE MARKET.

Protective goggles with filter lens with double-sided hard/anti-fog coating StrongGlass provides eye protection against high velocity particles, UV and IR radiation. Frame made of Evoprene, indirect ventilation. Available with soft PU foam seal..

* Models with PU foam seal covered with soft fabric provides additional comfort at cold operation or high humidity environments.

Use:

eye protection at auxiliary and other kinds of work connected with prolong stay outdoor at bright sunlight, auxiliary works at arc and gas welding, gas welding and brazing (**5 dark green filter**);

eye protection against UV and IR radiation during medium power gas welding and cutting (**6 dark gray filter**).

Possible to use together with PANORAMA dark blue protective face shield (see p.72).



Optical class one
Mass: 100 g



21134

Model name:	ZN11 PANORAMA StrongGlass™
Item number:	21134
Lens material:	PC StrongGlass
Filter:	5 dark green
Frame material:	TPE (Evoprene)
Ventilation:	indirect



21135

Model name:	ZN11 PANORAMA StrongGlass™
Item number:	21135
Lens material:	PC StrongGlass
Filter:	6 dark gray
Frame material:	TPE (Evoprene)
Ventilation:	indirect



21434

Model name:	ZN11 PANORAMA StrongGlass™
Item number:	24134
Lens material:	PC StrongGlass
Filter:	5 dark green
Frame material:	TPE (Evoprene)
Ventilation:	indirect PU foam seal



21435

Model name:	ZN11 PANORAMA StrongGlass™
Item number:	24135
Lens material:	PC StrongGlass
Filter:	6 dark gray
Frame material:	TPE (Evoprene)
Ventilation:	indirect PU foam seal

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

PANORAMA Nord protective goggles

EAC



Optical class one

Mass: 100 g



Modern goggles with panoramic protective lens made of PC material with **StrongGlass™** coating provides protection against high speed particles and UV radiation. Effective ventilation system together with double-sided anti-fog/hard coating prevents lens fogging. Protective lens is resistant to chemicals, such as solutions of alkali and acid. Soft frame made of thermoplastic elastomer **Evoprene** with wide contact line provides good adherence to face without excessive pressure that might cause discomfort and fatigue.

Adjustable headband reliably retains the goggles on the user's head. The goggles does not contain metal parts and provide excellent electrical insulation. Models with PU foam seal covered with soft fabric provides additional comfort at cold operation or high humidity environments.

Use:

eye protection against shavings and chips at metal and other materials finishing, particles of stone, ash, coal, cement, droplets of liquids, at work with pneumatic and electric tools, grinding, drilling, milling and other works connected, cold-working, stone dressing, treatment of plastic, wood and other materials. Frame with no ventilation is used for eye protection against irritating vapors and gases during chemicals handling.



Possible to use together with **PANORAMA** dark blue protective face shield (see p.72).

Model name:	ZP2 PANORAMA Nord	Model name:	ZN11 PANORAMA Nord	Model name:	ZNG1 PANORAMA Nord
Item number:	30247	Item number:	21147	Item number:	22147
Lens material:	PC StrongGlass	Lens material:	PC StrongGlass	Lens material:	PC StrongGlass
Filter:	clear 2-1.2	Filter:	clear 2-1.2	Filter:	clear 2-1.2
Frame material:	TPE (Evoprene)	Frame material:	TPE (Evoprene)	Frame material:	TPE (Evoprene)
Ventilation:	direct	Ventilation:	indirect	Ventilation:	no

SUPER PANORAMA (CA) protective goggles

**NON - FOGGING!
ESISTANT TO CHEMICALS!**



possible to wear with corrective spectacles



Goggles with panoramic protective lens made of acetate cellulose (CA) material provides protection against high velocity particles, UV and IR radiation. Lens is hard coated outside, its inner surface has anti-fog coating. Effective ventilation system together with anti-fog coating prevents lens fogging. Protective lens is resistant to some chemicals. Soft frame made of thermoplastic elastomer Evoprene with wide contact line provides good adherence to face without excessive pressure that might cause discomfort and fatigue. Adjustable headband reliable retains the goggles on the user's head. The goggle does not contain metal parts and provide excellent electrical insulation.

* Models with PU foam seal covered with soft fabric provides additional comfort at cold operation or high humidity environments.

Ventilation types:

- **Direct ventilation** - air enters into the space between frame and lens through vent holes in the frame. This reduces a possibility of lens fogging and temperature rise;
- **Indirect ventilation** - air enters into the space between frame and lens through ventilation devices. This reduces a possibility of lens fogging, temperature rise and provides protection against dust and droplets of liquid. This type of goggles uses for gas welding and other works connected with optical radiation.;
- **No ventilation** - air does not enter into the space between frame and lens. Generally such goggles are used at work with chemicals that irritate eyes as a rule with respirator.

Use:

eye protection against shavings and chips at metal and other materials finishing, particles of stone, ash, coal, cement, droplets of liquids, at work with pneumatic and electric tools, grinding, drilling, milling and other works connected, cold-working, stone dressing, treatment of plastic, wood and other materials. Frame with no ventilation is used for eye protection against irritating vapors and gases during chemicals handling.



Optical class one
Mass: 110 g

SUPER PANORAMA (CA) model range

Recommended filter use:

- **Clear** for eye protection against chips, shaving and debris at metal works and other material treatment, particles of stone, coal, splashes of mortar etc., works with electric and pneumatic tools;
- **3 green** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air;
- **5 dark green** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding, gas cutting and welding.

Recommended ventilation use:

- **Direct ventilation** for eye protection against high velocity particles;
- **Indirect ventilation** for eye protection against high velocity particles, dust and droplets of liquids;
- **No ventilation** for eye protection against high velocity particles, dust and droplets of liquids, eye irritating gases and vapors.



21107

Model name:	ZN11 SUPER PANORAMA
Item number:	21107
Lens material:	CA
Filter:	clear
Frame material:	TPE (Evoprene)
Ventilation:	indirect



24107

Model name:	ZN11 SUPER PANORAMA
Item number:	24107
Lens material:	CA
Filter:	clear
Frame material:	TPE (Evoprene)
Ventilation:	indirect PU foam seal



30207

Model name:	ZP2 SUPER PANORAMA
Item number:	30207
Lens material:	CA
Filter:	clear
Frame material:	TPE (Evoprene)
Ventilation:	direct



34207

Model name:	ZP2 SUPER PANORAMA
Item number:	34207
Lens material:	CA
Filter:	clear
Frame material:	TPE (Evoprene)
Ventilation:	direct PU foam seal



22107

Model name:	ZN1 SUPER PANORAMA
Item number:	22107
Lens material:	CA
Filter:	clear
Frame material:	TPE (Evoprene)
Ventilation:	no



21128

Model name:	ZN11 SUPER PANORAMA
Item number:	21128
Lens material:	CA
Filter:	3 green
Frame material:	TPE (Evoprene)
Ventilation:	indirect



24128

Model name:	ZN11 SUPER PANORAMA
Item number:	24128
Lens material:	CA
Filter:	3 green
Frame material:	TPE (Evoprene)
Ventilation:	indirect PU foam seal



30228

Model name:	ZP2 SUPER PANORAMA
Item number:	30228
Lens material:	CA
Filter:	3 green
Frame material:	TPE (Evoprene)
Ventilation:	direct



34228

Model name:	ZP2 SUPER PANORAMA
Item number:	34228
Lens material:	CA
Filter:	3 green
Frame material:	TPE (Evoprene)
Ventilation:	direct PU foam seal



21138

Model name:	ZN11 SUPER PANORAMA
Item number:	21138
Lens material:	CA
Filter:	5 dark green
Frame material:	TPE (Evoprene)
Ventilation:	indirect



24138

Model name:	ZN11 SUPER PANORAMA
Item number:	24138
Lens material:	CA
Filter:	5 dark green
Frame material:	TPE (Evoprene)
Ventilation:	indirect PU foam seal

ZN55 SPARK protective goggles

Eye protectors

possible to wear with corrective spectacles



- Goggles with indirect ventilation, improved view, effective ventilation system easily washable in TPE or PVC frame.
- The goggles provides protection against high velocity particles, molten metal splashes and hot solids, sparks and UV radiation.
- The goggles does not contain metal parts and provide excellent electrical insulation.
- Wide headband, adjustable in 54-62 mm size range, reliable retains goggle on the user head.

Two types of lens coating are available:

- **StrongGlass™** hard/anti-fog double-sided high grade coating;
- **super** - generic hard/anti-fog coating.

Protective lens is made of impact resistant polycarbonate.



Use:

eye protection against shavings and chips at metal and other materials finishing, particles of stone, ash, coal, cement, droplets of liquids, at work with pneumatic and electric tools, grinding, drilling, milling and other works connected, cold-working, stone dressing, treatment of plastic, wood and other materials.

IMPROVED VIEW!

Model name:	ZN55 SPARK super
Lens material:	PC super
Frame material:	PVC
Frame color:	
Filters available:	

Model name:	ZN55 SPARK StrongGlass™
Lens material:	PC StrongGlass
Frame material:	Evoprene
Frame color:	
Filters available:	

Frame marking:

	(RZ) Manufacturer identification
253	Number of applicable standard (Russian)
9	Symbol of resistance to molten metal splashes and hot solids
BT	Symbol of resistance to high speed particles (medium energy impact 5.9J V=120 m/s) at extremes of temperature

Lens marking:

2C-1.2	UV filter with good color recognition
	(RZ) Manufacturer identification
1	Optical class one
BT	Symbol of resistance to high speed particles (medium energy impact 5.9J V=120 m/s) at extremes of temperature
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to surface damaging by fine particles
N	Symbol of resistance to fogging



Optical class one
Mass:100 g

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

ZN55 SPARK model range

Recommended

filter use:

- **Clear** for eye protection against chips, shaving and debris at metal works and other material treatment, particles of stone, coal, splashes of mortar etc., works with electric and pneumatic tools;
- **2-1.2 amber** for contrast increasing, high precision works at insufficient illumination, machining, in medical institutions
- **2-2 orange** for advanced eye UV protection (500 nm wave length cut) in medicine at works with UV applicators and germicide lamps;
- **5-2.5 gray** for construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses;
- **5-3.1 dark gray** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air;
- **3 green** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air;
- **5 dark green** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding, gas cutting and welding;
- **6 dark green** for eye protection against UV and IR radiation during medium power gas cutting, welding and brazing.

ZN55 SPARK super

25530		
24530 with a seal	2C -1.2 clear	
25536		
24536 with a seal	2 -1.2 amber	
25516		
24516 with a seal	2-2 orange	
25523		
24523 with a seal	5-2.5 gray	
25562		
24562 with a seal	5-3.1 dark gray	

ZN55 SPARK StrongGlass™

25537		
24537 with a seal	2C -1.2 clear	
25557		
24557 with a seal	2 -1.2 amber	
25552		
24552 with a seal	2-2 orange	
25548		
24548 with a seal	3 green	
25534		
24534 with a seal	5 dark green	
25535		
24535 with a seal	6 dark green	
25555		
24555 with a seal	5-2.5 gray	
25527		
24527 with a seal	5-3.1 dark gray	



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

ZN88 SURGUT StrongGlass™ (PC) protective goggles

UNIQUE!

possible to wear with corrective spectacles



28837

Goggles with indirect ventilation, improved field of view, unique ventilation system, easily washable. **PC** protective lens with double-sided high grade **StrongGlass™** hard/anti-fog coating is resistant to high velocity particles at extremes of temperature. The goggles comprises of two frames: internal, made of soft hypoallergenic TPE and external, made of rigid plastic. The goggle does not contain metal parts, its frame is made of materials with excellent insulating properties.

Special features:

- lens special shape and dual frame exclude impact transfer to the corrective spectacles;
- adequate space between lens and frame giving possibility to wear corrective spectacles.

Features:

- optical class one;
- mass: 100g;
- adjustable headband;
- dual frame:



ERC



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

ZN85 SURGUT StrongGlass™ (PC) protective goggles



28537

Goggles with indirect ventilation, improved field of view, unique ventilation system, easily washable. **PC** protective lens with double-sided high grade **StrongGlass™** hard/anti-fog coating is resistant to high velocity particles at extremes of temperature. The goggles comprises of two frames: internal, made of soft hypoallergenic TPE and external, made of rigid plastic. The goggles does not contain metal parts, its frame is made of materials with excellent insulating properties.

Features:

- large toric protective lens;
- dual frame;
- swing joint of the headband with frame that gives a possibility to adjust frame tilt;
- suitable for use with half mask respirator.

Use:

in oil and gas recovery and processing industry, construction and repair works in cold conditions, especially in severe climate of the Far North.

Lens marking:

2C-1.2	UV filter with good color recognition
Ⓡ(RZ)	Manufacturer identification
1	Optical class one
BT	Symbol of resistance to high speed particles (medium energy impact 5.9J V=120 m/s) at extremes of temperature
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to surface damaging by fine particles
N	Symbol of resistance to fogging

Protective face shield for **PANORAMA** goggles

OVERALL EYE AND FACE PROTECTION

Possible to wear with a respirator



Innovative solution for exhaled air removal

Increased space under the shield

Provides face protection against mechanical risks, ideal for use together with respirator, prolonging respirator working life especially at painting, works in dusty environments. Outside ventilation channels excludes exhaled air penetration into the space under face shield.

The **PANORAMA** face shield is available in two options: **clear** (00777 item number) for works where protection against optical radiation is not needed, and **dark blue** (00888 item number) for gas welding or some other works where IR radiation take place.

Product is used together with **PANORAMA** goggles with indirect (ZN) and no ventilation (ZNG) frames as follows:

1. insert the face shield into the slots
2. insert shield clamps into goggle frame in its nasal area
3. face shield is ready to use



EAC

Protective face shield for **SURGUT** goggles



EAC

00885/1

Provides complete face protection against hard particles, sparks, splashes etc.

SURGUT protective face shield is made of polycarbonate and is available with two options: with ventilation (item number 00885) and without ventilation (item number 00885/1). The product is intended for use together with ZN85 **SURGUT StrongGlass™** protective goggles item number **28537**, ZN88 item number **28837**.

Working position – the visor is lowered



ventilation holes

Non-working position – the visor is raised



Face shield marking:

2C-1.2	UV filter with good color recognition
(RZ)	Manufacturer ID
1	Optical class one
BT	Symbol of resistance to high speed particles at extremes of temperature

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

ZP2 PANORAMA STAL protective goggles

NO ANALOGS!

possible
to wear with
corrective
spectacle



26206

Protective goggles with ocular made of steel wire mesh (cell size 2 x 2 mm) painted with black enamel for rust prevention. Provides protection against high velocity particles.

Features:

- ocular provides good vision due optimum mesh size;
- adjustable headband reliable retains the goggles;
- optimum cell size;
- suitable for wearing corrective spectacles.

Use:

eye protection at materials crushing, metal chopping and other works where big debris are flying off and conventional oculars cannot provide reliable protection.



Mass: 110 g.

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

ETALON protective goggles

LIGHTWEIGHT!



ENI

Optical class one.
Mass: 65 g

Protective goggles with lens made of PC or CA (see p.75) provides protection against mechanical risks (high velocity particles, medium energy impact 5.9 J, V=120 m/s). Lens and frame are resistant to acid and alkali solutions. No metal parts are used in this product. Available in frames with direct and indirect ventilation.

Protective lenses:

- **PC.** Protective lens made of polycarbonate sheet with double-sided hard coating. Resistant to scratching, and high velocity particles impact;
- **PC StrongGlass™.** Polycarbonate lens with double-sided high quality hard/anti-fog coating. Resistant to scratching, prevents fogging in wide temperature range, spare its protective properties during lens working life. Resistant to some chemicals;
- **CA.** Protective lens made of cellulose acetate sheet with hard coating on the external side and anti-fog coating on the internal side. Lens offers anti-static and self-polishing properties, resistant to high velocity particles impact. Resistant to some chemicals.

Ventilation types:

- **Direct ventilation** – air enters into the space between frame and lens through vent holes in the frame. This reduces a possibility of lens fogging and temperature rise.
- **Indirect ventilation** – air enters into the space between frame and lens through ventilation devices. This reduces a possibility of lens fogging, temperature rise and provides protection against dust and droplets of liquid. This type of goggle uses for gas welding and other works connected with optical radiation.

Lens marking:

2-1.2	UV filter
(RZ)	Manufacturer identification
1	Optical class one
FT	Symbol of resistance to high speed particles (low energy impact 0.84 J V=45 m/s) at extremes of temperature
BT	Symbol of resistance to high speed particles (medium energy impact 5.9J V=120 m/s) at extremes of temperature
3	Symbol of protection against liquid droplets and splashes
K	Symbol of resistance to surface damaging by fine particles
N	Symbol of resistance to fogging

ETALON model range

Model name: ZN4 ETALON StrongGlass™ (PC)	Model name: ZP8 ETALON StrongGlass™ (PC)
Item number: 20437	Item number: 30837
Lens material: PC StrongGlass™	Lens material: PC StrongGlass™
Filter: 2-1.2 clear	Filter: 2-1.2 clear
Frame material: Evoprene	Frame material: Evoprene
Ventilation: indirect	Ventilation: direct
Use: protection against mechanical risks	Use: protection against mechanical risks
Model name: ZN4 ETALON (PC)	Model name: ZP8 ETALON (PC)
Item number: 20411, 20440	Item number: 30811
Lens material: PC	Lens material: PC
Filter: 1.2 clear	Filter: 1.2 clear
Frame material: PVC	Frame material: PVC
Ventilation: indirect	Ventilation: direct
Use: protection against mechanical risks	Use: protection against mechanical risks
Model name: ZN4 ETALON (CA)	Model name: ZP8 ETALON (CA)
Item number: 20407	Item number: 30807
Lens material: CA	Lens material: CA
Filter: 1.2 clear	Filter: бесцветное стекло
Frame material: Evoprene	Frame material: Evoprene
Ventilation: indirect	Ventilation: direct
Use: protection against mechanical risks	Use: protection against mechanical risks
Model name: ZN4 ETALON (3 CA)	Model name: ZP8 ETALON (3 CA)
Item number: 20428	Item number: 30828
Lens material: CA	Lens material: CA
Filter: 3 green	Filter: 3 green
Frame material: Evoprene	Frame material: Evoprene
Ventilation: indirect	Ventilation: direct
Use: protection against mechanical risks, bright sunlight	Use: protection against mechanical risks, bright sunlight
Model name: ZN4 ETALON (5 CA)	Model name: ZP8 ETALON (5 CA)
Item number: 20438	Item number: 30838
Lens material: CA	Lens material: CA
Filter: 5 green	Filter: 5 green
Frame material: Evoprene	Frame material: Evoprene
Ventilation: indirect	Ventilation: indirect
Use: protection against mechanical risks, optical radiation at gas welding and cutting	Use: protection against mechanical risks, optical radiation at gas welding and cutting



20411



30811



20437



30837



20407



30807



20428



30828



20438



30838

DRIVER RIKO® protective goggles

MODEL WITH
MINERAL GLASS
LENSES



Goggles with ocular made of transparent materials (see p.77).

Product features:

- soft Evoprene frame offers high chemical and heat resistance; it provides good adherence to the face, does not produce excessive pressure and therefore decreases fatigue;
- good air exchange in space between frame and face;
- elastic adjustable headband;
- wide frame contact line;
- all materials with good electrical insulation properties, no metal parts;
- resistance to acid and alkali solutions, to hard particles impact, protection against sparks and molten metal splashes, oils and greases.

Lens materials:

- **Hardened mineral glass (HMG)**, clear or colored, characterized by good optical quality and very high surface hardness, that is especially important, therefore protective lens is highly resistant to aggressive chemicals, sparks and molten metal splashes at extremes of temperature. Hardened mineral glass lenses has increased robustness and capable to withstand to hard particles impact.
- **PC** – polycarbonate. Provides protection against high velocity particles and optical radiation.
- **Plexiglas** – impact resistance PMMA. Rather hard plastic, no coating required.

Coatings

- **StrongGlass™** – high grade double-sided water resistant hard/anti-fog coating;
- **super** – generic double-sided water resistant hard/anti-fog coating.

Use:

eye protection against shavings and chips at metal and other materials finishing, particles of stone, ash, coal, cement, droplets of liquids, at work with pneumatic and electric tools, grinding, drilling, milling and other works connected, cold-working, stone dressing, treatment of plastic, wood and other materials.

* **Plexiglas** is replacing by new Absolute PC grade which is resistant to abrasive due double sided hard coating. Please contact sales managers for elaboration.



Optical class one.
Mass: 70 g

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

DRIVER RIKO® model range

Recommended filter use:

- **2-1.2 clear** for grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials;
- **5-2.5 gray** for construction, mounting, cleaning, sweeping works, auxiliary labor connected with long stay outdoor at bright sunlight, also can be used as high quality sunglasses;
- **5-3.1 dark gray** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air;
- **3 green** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air;
- **5 dark green** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding, gas cutting and welding;
- **6 dark green** for eye protection against UV and IR radiation during medium power gas cutting, welding and brazing;
- **7 dark green** for eye protection against UV and IR radiation during medium power gas cutting, welding and brazing.

Model name:	ZN18 DRIVER RIKO®
Item number:	21810
Lens material:	HMG
Filter:	1.2 clear
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21811
Lens material:	Plexiglas
Filter:	2-1.2 clear
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21830
Lens material:	PC super
Filter:	2-1.2 clear
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21837
Lens material:	PC StrongGlass™
Filter:	2-1.2 clear
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21821
Lens material:	HMG
Filter:	2.5 light green
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21855
Lens material:	PC StrongGlass™
Filter:	2.5 gray
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21822
Lens material:	HMG
Filter:	3 green
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21827
Lens material:	PC StrongGlass™
Filter:	3 green
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21831
Lens material:	HMG
Filter:	5 green
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21834
Lens material:	PC StrongGlass™
Filter:	5 green
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21832
Lens material:	HMG
Filter:	6 dark green
Frame material:	TPE (Evoprene)

Model name:	ZN18 DRIVER RIKO®
Item number:	21833
Lens material:	HMG
Filter:	7 dark green
Frame material:	TPE (Evoprene)



21810



21811



21830



21837



21821



21855



21822



21827



21831



21834



21832



21833

GENERAL, ADMIRAL protective goggles

GAS WELDING

Eye protectors



ZN62 GENERAL



ZND2 ADMIRAL

Protective goggles with rigid lens holder and lenses made of transparent materials (see p.79).

Product features:

- rigid lens holder made of heat resistant plastic offers reliable lens fixation;
- soft PVC frame with wide contact line adheres firmly to the face but does not produce excessive pressure;
- effective ventilation system;
- protective lenses distinguished by stability of its optical properties and very high resistance to abrasion, scratching and molten metal splashes;
- all materials with good electrical insulation properties, no metal parts.

Lens material:

- **ZN62 GENERAL:**
Clear mineral glass shatterproof protective lenses "Triplex"
Mineral glass filter lenses.
- **ZND2 ADMIRAL:**
Mineral glass filter lenses in flip up lens holder
Impact and heat resistant PC lenses in frame

ZND 2 ADMIRAL model distinguishes by its "2 in 1" design that allows:

- to protect eyes against harmful radiation when flip up lens holder is lowered;
- to protect eyes against hard particles when flip up lens holder is lifted.

Use:

eye protection at arc and gas welding in various branches of industry.

Lens marking:

2,5	Filter scale number
Ⓡ(RZ)	Manufacturer identification
1	Optical class one
3	Symbol of protection against droplets of liquids
4	Symbol of protection against large dust particles
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to surface damaging by fine particles
S	Symbol of increased robustness (filter)
FT	Symbol of resistance to high speed particles (low energy impact 0.84J V=45 m/s) at extremes of temperature (from -5°C to 55°C)

EAC



Optical class one.
Mass: 105 g

model range

ZN62 GENERAL

Model name:	ZN62 GENERAL
Item number:	26208
Lens material:	triplex
Filter:	clear

Use: grinding, drilling, milling, turning, mounting and other works connected with cold operation, stone dressing, treatment of wood, plastic and other materials



26208

Model name:	ZN62 GENERAL
Item number:	26221
Lens material:	mineral glass
Filter:	2.5 light green

Use: construction, mounting, cleaning, sweeping, auxiliary labor and other works at bright sunlight



26221

Model name:	ZN62 GENERAL
Item number:	26222
Lens material:	mineral glass
Filter:	3 green

Use: eye protection against excessive brightness of the sunlight at works outdoor; auxiliary works during arc welding at open areas



26222

Model name:	ZN62 GENERAL		
Item number:	26231	26232	26233
Lens material:	mineral glass		
Filter:	5 dark green	6 dark green	7 dark green
Use:	eye protection against excessive brightness of the sunlight at works outdoor; auxiliary works during arc welding, gas welding, soldering and oxygen cutting	eye protection against visible light, UV and IR radiation during medium power gas welding and cutting	eye protection against visible light, UV and IR radiation during medium power gas welding and cutting



26231

26232

26233

Model name:	ZN62 GENERAL			
Item number:	26263	26264	26265	26266
Lens material:	mineral glass			
Filter:	9	10	11	12

Use: construction, mounting and repair works connected with arc welding



26263

26265

26264

26266

ZND2 ADMIRAL

Model name:	ZND2 ADMIRAL
Item number:	23221
Lens material:	mineral glass
Filter:	2.5 light green

Use: construction, mounting, cleaning, sweeping, auxiliary labor and other works at bright sunlight



23221

Model name:	ZND2 ADMIRAL
Item number:	23222
Lens material:	mineral glass
Filter:	3 green

Use: eye protection against excessive brightness of the sunlight at works outdoor; auxiliary works during arc welding at open areas



23222

Model name:	ZND2 ADMIRAL
Item number:	23231
Lens material:	mineral glass
Filter:	5 dark green

Use: eye protection against excessive brightness of the sunlight at works outdoor; auxiliary works during arc welding, gas welding, soldering and oxygen cutting



23231

Model name:	ZND2 ADMIRAL
Item number:	23232
Lens material:	mineral glass
Filter:	6 dark green

Use: eye protection against visible light, UV and IR radiation during medium power gas welding and cutting



23232

Model name:	ZND2 ADMIRAL
Item number:	23233
Lens material:	mineral glass
Filter:	7 dark green

Use: eye protection against visible light, UV and IR radiation during medium power gas welding and cutting



23233

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

IMPROVED CHEMI-
CAL RESISTANCE

CHEMICAL SPLASH GOGGLES, no ventilation

ZNG1



22108

EAC

Mass: 110 g

Goggles come together with dropping bottle with anti-fogging fluid



Goggles for work with aggressive and non-aggressive liquids with mineral glass lenses in PVC frame, adjustable elastic headband. The product is used for eye protection against droplets and irritating vapors, some organic solvents and thinners, petrochemicals.

Features:

- mineral glass lenses;
- transparent PVC frame;
- compatible with respirator.

Lens marking:

(RZ)	Manufacturer identification
1	Optical class one
5	Symbol of increased robustness
3	Symbol of protection against droplets of liquids
4	Symbol of protection against large dust particles
5	Symbol of protection against gases and dust
K	Symbol of resistance to fogging

ZNG2



22207

Mass: 85 g

Goggles for work with especially aggressive and non-aggressive liquids with mineral glass lenses in rubber frame, elastic headband. The product is used for eye protection against droplets and irritating vapors, some organic solvents and thinners, petrochemicals.

Features:

- mineral glass lenses;
- black frame and headband made of rubber, resistant to chemicals;
- non-fogging film on the back lens surface;
- tight adherence to face.

Lens marking:

(RZ)	Manufacturer identification
1	Optical class one
3	Symbol of protection against droplets of liquids
4	Symbol of protection against large dust particles
5	Symbol of protection against gases and dust
K	Symbol of resistance to fogging

**RELIABLE
PROTECTION!****BIOT protective visor****Features:**

- simple and elegant design;
- optical class one;
- visor material – high grade PC;
- low mass – less than 27 g;
- wide field of view;
- fits to any face shape;
- soft nose pads and earpieces;
- easily changeable visor;
- set of delivery: frame + 10 changeable visors.



17840

Optical class one.
Mass: 27 g.**Use:**

eye and face protection in food industry, medicine, surgery, cosmetology, forensic medicine, machine building, chemical labs etc.

Visor marking:

 (RZ)	Manufacturer ID
1	Optical class one

O15 HAMMER ACTIVE plus spectacles attachable to safety helmet

IDEAL SOLUTION!

Spectacles attachable to safety helmet are intended for front and lateral eye protection against hard particles and UV radiation both indoor and outdoor. Impact resistant polycarbonate lens easily retracts under the helmet shell. Elastic nape strap attachment is anticipated.

- low mass, no more than 30 g;
- lateral protection;
- good adherence to face;
- detachable elastic headband;
- lens options: PC **super** and PC **StrongGlass™**;
- elastic nape strap.



Elastic nape strap attachment is anticipated



	Model name: O15 HAMMER ACTIVE plus
	Item number: 11530/1
	Lens material: PC super
	Filter: 2-1.2 clear

	Model name: O15 HAMMER ACTIVE plus
	Item number: 11517/1
	Lens material: PC super
	Filter: 2-1.7 with mirror coating

	Model name: O15 HAMMER ACTIVE plus
	Item number: 11529/1
	Lens material: PC super
	Filter: 5-3.1 dark gray

	Model name: O15 HAMMER ACTIVE plus
	Item number: 11537/1
	Lens material: PC StrongGlass™
	Filter: 2-1.2 clear

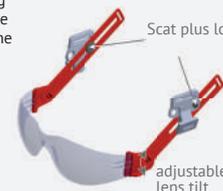
	Model name: O15 HAMMER ACTIVE CONTRAST plus
	Item number: 11536/1
	Lens material: PC super
	Filter: 2-1.2 yellow

O15 HAMMER ACTIVE Plus assembly diagram

- 1 Remove nap strap
 - 2 Tor – a hole in helmet harness for temple attachment
 - 3 Attach temple to Scat plus locking device
 - 4 Scat plus locking device for temple attachment to the helmet harness.
-



assembled



adjustable lens tilt

Recommended filter use:

- 2-1.2 **clear** for grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials.
- 2-1.2 **yellow** for contrast increasing, high precision works at insufficient illumination, machining, in medical institutions
- 5-3.1 **dark gray** for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air.
- 2-1.7 **with mirror coating** for eye protection against excessive brightness of sunlight at outdoor works. Offers good color recognition, removes glints.



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

**RELIABLE PRO-
TECTION!**

075 VISION®

Protective visor attachable to safety

Protective visor attachable to safety helmet are intended for front and lateral eye protection against hard particles and UV radiation both indoor and outdoor. Impact resistant polycarbonate visor easily retracts under the helmet shell if necessary.

Intended use: complex eye, face and head protection together with ROSOMZ® safety helmets.

Item number	Lens material, coating and filter scale number	Characteristics
17530	PC -clear polycarbonate	transparent, impact resistant to high velocity particles at extremes of temperature
17597	PC StrongGlass™ - clear polycarbonate, 2-1.2	transparent, impact resistant to high velocity particles at extremes of temperature, non-fogging, water resistant
17507	CA-clear cellulose acetate	transparent, impact resistant to high velocity particles, hard/anti-fogging coating, self-polishing, antistatic
17528	CA-cellulose acetate, 3 green filter	transparent, impact resistant to high velocity particles, hard coating, self-polishing, antistatic, UV-IR protection
17538	CA-cellulose acetate, 5 dark green filter	transparent, impact resistant to high velocity particles, hard coating, self-polishing, antistatic, UV-IR protection



Recommended filter use:

2-1.2 clear for grinding, drilling, milling, turning, mounting, metalwork and other works connected with cold work of metal, stone, plastic, wood and other materials.

3 green for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during arc welding at open air.

5 dark green for eye protection against excessive brightness of sunlight at works connected with long stay outdoor at bright sunlight, auxiliary works during gas cutting and welding.

- low mass: no more than 30 g;
- PC or CA visor material;
- possible to wear with corrective spectacles.



077 ВИЗИОН® trek

protective visor attachable to safety helmet

Recommended for use together with SOMZ-55 Favori™T **trek**, or another safety helmets with trek harness.

For use with other safety helmet models **SOYUZ (Soyuz in Russian = Union) universal holder is needed.**

Item number	Lens material, coating and filter scale number
17730	PC -clear polycarbonate
17797	PC StrongGlass™ clear polycarbonate, 2-1.2
17707	CA-clear cellulose acetate
17728	CA-cellulose acetate, 3 green filter
17738	CA-cellulose acetate, 5 dark green filter

- low mass, no more than 30 g;
- changeable visor.



SOYUZ universal holder assembly with safety helmet and 077 VISION® trek visor.



Lugs for visor moving out



Personal Protective Equipment

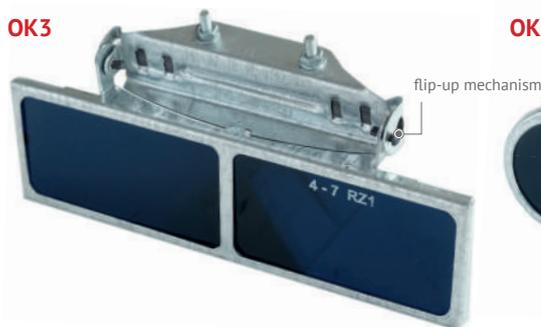
Sales department tel: +7 34275 33 777; 8 800 707 41 84

OK1 and OK3 clip-on furnace observation glasses

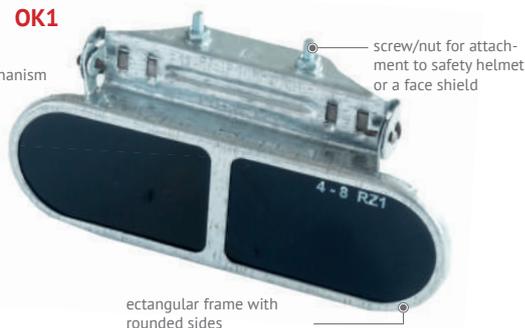
NO ANALOGS!

METALLURGY

OK3



OK1



flip-up mechanism makes possible to lift glasses when necessary

Together with protective face shield this product provides complex eye and face protection against IR radiation upon work near steel-smelting and other furnaces. Offers a good view and safe operation near heat sources

Features:

- mineral glass IR filters;
- metal lens holder;
- flip-up mechanism;
- bracket for attachment to safety helmet peak or protective face shield;
- OK1 can be attached either inside or outside the visor;
- OK3 can be attached only outside the visor

Recommended filter use:

- **4-6 IR filter** for work near steel-smelting and other furnaces with temperature from 1450°C to 1580°C
- **4-7 IR filter** for work near steel-smelting and other furnaces with temperature from 1580°C to 1730°C
- **4-8 IR filter** for work near steel-smelting and other furnaces with temperature from 1730°C to 1900°C

rectangular frame with rounded sides



10351

Model name:	OK3
Item number:	10351
Filter:	4-6



10151

Model name:	OK1
Item number:	10151
Filter:	4-6



10353

Model name:	OK3
Item number:	10353
Filter:	4-7



10153

Model name:	OK1
Item number:	10153
Filter:	4-7



10354

Model name:	OK3
Item number:	10354
Filter:	4-8



10154

Model name:	OK1
Item number:	10154
Filter:	4-8



ERC

ZP1 PATRIOT goggles with direct ventilation**NO ANALOGS!**

Goggles with big size protective lenses made of hardened mineral glass are extremely resistant to abrasion and scratching.

Features:

- effective ventilation;
- rubber seal covered with hygienic fabric;
- adjustable headband;
- 120° field of view;
- good optics;
- high resistance to chemicals;
- resistance to sparks and molten metal splashes;
- increased robustness (up to 0.6 J impact energy).

Recommended

for work in extremely hard environments at high temperature and concentration of contamination.

During 77 years this product production is permanently growing. ZP1 PATRIOT is the best example of that how quality and high-tech product is demanded on the market many years!

30110**ERC**

Mass: 95 g



Specialized spectacles and goggles for protection against laser and EM radiation.

Lasers, or optical quantum generators, are devices that convert pumping energy to energy of coherent monochromatic polarized radiation.

Laser types:

In accordance to GOST R 12.4.254 lasers are divided into 4 types: **D** – continuous wave laser, **I** – pulsed laser, **R** – Q-switched laser, **M** – mode-locked laser. **I**, **R** and **M** lasers are pulsed ones and difference between them lies in pulse duration and method of pulse generation.

- D - continuous wave laser
- I - pulsed laser
- R - Q-switched laser
- M - mode-locked laser

Laser eye protector selection

In order to select laser eye protector following data are needed:

- Working wave length (working waves band from – to);
- Radiation power (but not power consumption);
- Pulse radiation energy for pulsed lasers;
- Beam section dimensions or either power or energy density.

Marking

In accordance to GOST R 12.4.254 durable marking should be applied onto filters or frame. If marking is applying onto the filters, it should not deteriorate their transparency and protective properties.

Filter marking example:

10600	Laser working wavelength on which indicated protection degree is providing
DIR	Laser types to which protector is applicable
L6	Filter optical density on the working wavelength
Ⓞ (RZ)	Manufacturer ID
F	Symbol of mechanic robustness (high velocity particles low energy impact 0.84 J V= 45 m/s)



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Specialized protective goggles ZN22-SZS22 LASER

Protective goggles with indirect ventilation and mineral glass filters SZS 22 type, soft frame made of PVC, adjustable headband and vent devices that provide effective air exchange, protects eyes against reflected laser radiation in 630-1400 nm wavelength band.

Filter optical density in wavelength bands:

- 630 – 680 nm.....3±0.25
- 680 – 1200 nm.....5±0.25
- 1200-1400 nm.....3±0.25

Use:

the goggle is intended for eye protection against scattered diffusely reflected continuous wave and pulsed lasers radiation in combination with protection against fine particles and splashes of liquids at ambient temperature up to +50°C at production sites, laboratories and shops in various branches of industry.



22203

ERC



Specialized protective goggles ORZ-5

Protective goggle with mineral glass lenses, covered by transparent conductive film of tin dioxide. Lenses are inserted into rigid metal rims which are attached to soft rubber frame that contains metal mesh inside and covered with durable and hygienic fabric outside.

Recommended use:

for eye protection against electromagnetic (EM) radiation in millimeter, centimeter and metric wave bands with 25 dB screening efficiency at ambient temperature -45°C...50°C and relative humidity no more than 93% during repair and maintenance works on HF and VHF equipment.



30504

ERC



NO ANALOGS!

Laser safety spectacle: 022 LASER

Eye protectors



12200

Provide protection against direct and reflected radiation of Nd:YAG lasers with **1064 nm** working wavelength.

Recommended for use:

in medicine (ophthalmic surgery, photocoagulation, epilation), in industry (metal and plastic engraving and marking), in hydrodynamics at processes in liquids research, in spectroscopy etc.

Filter marking:

1064 10600	Laser working wavelength on which indicated protection degree is providing
DIR	Laser types to which protector is applicable
L6	Filter optical density on the working wavelength
(RZ)	Manufacturer ID
F	Symbol of mechanic robustness (high speed particles low energy impact 0.84 J V= 45 m/s)

Features:

- protective filter lens made of polycarbonate with anti-scratch coating;
- advanced front, top and lateral protection against laser radiation, high velocity particles (low energy impact V= 45 m/s);
- perfect view that allows to detect pigmented spots, blood vessel injuries in combination with high degree protection, minimize headache and other symptoms connected with laser equipment handling;



12206

Item number: 12206

Provide protection against direct and reflected radiation of CO2 lasers with 10600 nm working wavelength.

Recommended for use:

in medicine (ophthalmic surgery, photocoagulation, epilation), in industry (metal, rubber and plastic engraving and marking, cutting of metals and glass, welding of metals), in military (distance measurement, space objects destruction), in atomic industry (isotopes separation, uranium enrichment etc).

- offers comfortable, safe work, perfect visual perception, adequate assessment of skin condition vessels etc.
- optical class 1;
- optical density 6.



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Laser safety spectacle: O22 LASER



12205

Provide protection against direct and reflected radiation of Nd:YAG lasers with 532 nm working wavelength.

Recommended for use:

in medicine (ophthalmic surgery, photocoagulation, epilation), in industry (metal and plastic engraving and marking), in hydrodynamics at processes in liquids research, in spectroscopy etc.

Filter marking:

532 755	Laser working wavelength on which indicated protection degree is providing
DIR	Laser types to which protector is applicable
L6	Filter optical density on the working wavelength
Ⓜ(RZ)	Manufacturer ID
F	Symbol of mechanic robustness (high speed particles low energy impact 0.84 J V= 45 m/s)

Features:

- protective filter lens made of polycarbonate with anti-scratch coating;
- advanced front, top and lateral protection against laser radiation, high velocity particles (low energy impact V= 45 m/s);
- perfect view that allows to detect pigmented spots, blood vessel injuries in combination with high degree protection, minimize headache and other symptoms connected with la-



12207

Laser safety spectacles: O22 LASER

Recommended for use:

in medicine (ophthalmic surgery, photocoagulation, epilation, tattoo), for protection against other sources of radiation on wavelength 755 ± 50 nm.

ser equipment handling;

- offers comfortable, safe work, perfect visual perception, adequate assessment of skin condition vessels etc;
- optical class 1;
- optical density 6.

Harmful and hazardous factors at welding

Gases and smokes

Mixture of very small particles and gases may be very toxic and may cause either short-term or long-term sicknesses.



Visible light, UV and IR radiation

Causes retina damage, blood pressure increasing, cornea damage, cataract, photo ophthalmia.



Noise

Higher noise level causes blood pressure increasing, fatigue, nervousness and irritability, anxious feeling.



Heat and molten metal splashes

Causes burns and brings heatstroke.



Concurrent conditions

Short-term sicknesses

Metal vapors inhalation caused so called metal-fume fever. Welding smoke irritates eyes and airways, digestive tract disorders.

Long-term sicknesses

Pulmonary bronchitis, asthma, pneumonia, heart diseases, skin diseases, chronic gastritis, gastric ulcer etc.

Muscles and bones injuries

Back injuries, pain in shoulders, muscle weakness, painful sensation in wrists, tendonitis, knee-joint diseases.



Welding helmets with automatic welding filters (ADF)

In modern economic conditions welders choose welding helmets with active protection more and more frequently. Active protection realizes with a help of ADF, which react to the IR radiation of the arc and/or its electromagnetic field, creating by the arc current. ADF practically instantly transfers from faded to darkened state. When arc does not exist, the welder can see the welding object, as filter optical density is low. After arc ignition filter darkens, protecting welder against harmful radiation.

OJSC Suksun Optical & Mechanical plant manufactures seven ADF models in Favori®T, BIOT and PresidenT cases:

- CRYSTALINE® YAMAL
 - CRYSTALINE® STANDART
 - CRYSTALINE® UNIVERSAL
 - CRYSTALINE® EXPERT
 - CRYSTALINE® PREMIUM
 - CRYSTALINE® PROFI
 - e684 in Favori®T case
- 2 special purpose models: e684 in original case and RN4 CRYSTALINE® CONTACT.

Typical CRYSTALINE® ADF comprises of plastic case, interference filter, polarizer, liquid crystal cells (LCC), analyzer, solar cell, control circuit, two or four IR sensors, LCC state control circuit and shade regulator. Some ADF models are equipped with EMF sensor, that provides reliable filter darkening at low illumination.

Shell types:



Advantages of the ADF in 3 helmet shell versions:

- 100% protection against harmful factors that accompany welding;
- filters are intended for industrial intensive welding;
- increasing of work speed;
- increasing of work quality;
- increasing of welding learning rate;
- usability;
- no necessary to have some welding helmets;
- darkening only from arc, not from another light sources;
- possibility to work without assistant at welding and auxiliary works fulfillment;
- decreasing of harmful effects, it prevents:
 1. cervical osteochondrosis
 2. headache
 3. ophthalmic diseases
 4. respiratory diseases

All ADFs in the Favori®T:

Yamal model



STANDART model



UNIVERSAL model



EXPERT model



PREMIUM model



PROFI model



e684 model



Welding helmets with YAMAL ADF*

BASIC PROTECTION

Yamal ADF back side view



Yamal ADF front side view



Yamal ADF optical parameters: 1/1/1/2

- 1 OPTICAL CLASS 1. The best in this parameters category. It defines degree of unwanted optical effects.
- 1 LIGHT DIFFUSION CLASS 1. The best by transparency and opacity absence. Maximum value of reduced luminance factor less than 1 cd m²/lx.
- 1 VARIATION OF LUMINOUS TRANSMITTANCE CLASS 1. The best by transmittance uniformity. Transmittance is approximately identical at any point of the viewing window.
- 2 ANGULAR DEPENDENCY CLASS 2. There are 3 classes of angular dependency. For class 2 luminous transmittance varies through 2 scale numbers when visual axis is not perpendicular to the filter surface.

YAMAL ADF SPECIFICATIONS:

Filter scale number	4/9-13
Viewing area, mm	92×42
Optical sensors	2
Optical quality	1/1/1/2
Darkening time, s	0.0005
Fading time, s	0.1 – 0.9
Manual filter shade control	yes, external
Fading delay control	yes, internal
Optical sensors sensitivity control	yes, internal
Grinding mode	not
Power source: Solar cell	yes
Li-Ion internal chargeable battery	yes
Working temperature range	from -5°C to 70°C
Warranty	one year

Use:
MMA, MIG, MAG, arc gouging



*ADF – Auto Darkening Filter

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Welding helmets with YAMAL ADF product range

Welding helmet with YAMAL ADF in *Favori* shell

Favori shell ADVANTAGES:

- ergonomic design;
- memorable modern design;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material;
- streamline shape prevents molten metal spray sticking;
- improved protection of head and neck;
- overhead welding.

Welding helmet with YAMAL ADF in *biot* shell

biot shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the housing;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Welding helmet with YAMAL ADF in *PRESIDENT* welder's protective face shield

PRESIDENT welder's face shield ADVANTAGES:

- most lightweight safety helmet mounted welder's protective face shield;
- simple and reliable system of attachment to a safety helmet;
- face shield locking in two positions: working (lowered) and non-working (lifted);
- suitable for use together with earmuffs;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Recommended for use with safety helmets with shortened peak.

KN – welder's protective face shield, mounted on safety helmets by means of adapter
 NN – welding helmet with head gear (eg. RAPID)
 NNV – welding helmet for use with PAPER

with RAPID headgear	Item number
NN12 CRYSTALINE® Yamal Favori®T	51245
helmet mounted	Item number
KN CRYSTALINE® Yamal Favori®T	05145
with fabric seal	Item number
NNV12 CRYSTALINE® Yamal Favori®T	01245



with RAPID headgear	Item number
NN75 CRYSTALINE® Yamal BIOT®	57545
helmet mounted	Item number
KN CRYSTALINE® Yamal BIOT®	07545
with fabric seal	Item number
NNV75 CRYSTALINE® Yamal BIOT®	01745



helmet mounted	Item number
KN CRYSTALINE® Yamal PRESIDENT	05545



Welding helmets with Standart ADF*

SIMPLE USE

Standart ADF back side view



Standart ADF front side view



Standart ADF optical parameters: 1/1/1/2

1	OPTICAL CLASS 1. The best in this parameters category. It defines degree of unwanted optical effects.
1	LIGHT DIFFUSION CLASS 1. The best by transparency and opacity absence. Maximum value of reduced luminance factor less than 1 cd m ² /lx.
1	VARIATION OF LUMINOUS TRANSMITTANCE CLASS 1. The best by transmittance uniformity. Transmittance is approximately identical at any point of the viewing window.
2	ANGULAR DEPENDENCY CLASS 2. There are 3 classes of angular dependency. For class 2 luminous transmittance varies through 2 scale numbers when visual axis is not perpendicular to the filter surface.

STANDART ADF SPECIFICATIONS:

Filter scale number	4/9-13
Viewing area, mm	100×49
Optical sensors	2
Optical quality	1/1/1/2
Darkening time, s	0.0005
Fading time, s	0.1-0.9
Manual filter shade control	yes, external
Fading delay control	yes, internal
Optical sensors sensitivity control	yes, internal
Grinding mode	not
Power source: Solar cell	yes
Li-Ion internal chargeable battery	yes
Working temperature range	from -10°C to 70°C
Warranty	three years

Use:

MMA, MIG, MAG, TIG (current >30A), arc gouging, plasma cutting.



*ADF – Auto Darkening Filter

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Welding helmets with Standart ADF product range

Welding helmet with Standart ADF in **Favori** shell

Favori shell ADVANTAGES:

- ergonomic design;
- memorable modern design;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material;
- streamline shape prevents molten metal spray sticking;
- improved protection of head and neck;
- overhead welding.

Welding helmet with Standart ADF in **BIOT** shell

BIOT shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the shell;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Welding helmet with Standart ADF in **PRESIDENT** welder's protective face shield

PRESIDENT welder's face shield advantages:

- most lightweight safety helmet mounted welder's protective face shield;
- simple and reliable system of attachment to a safety helmet;
- face shield locking in two positions: working (lowered) and non-working (lifted);
- suitable for use together with earmuffs;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Recommended for use with safety helmets with shortened peak.

with RAPID headgear	Item number
NN12 CRYSTALINE® Standart Favori®T	51285
helmet mounted	Item number
KN CRYSTALINE® Standart Favori®T	05185
with fabric seal	Item number
NNV12 CRYSTALINE® Standart Favori®T	01285

with RAPID headgear	Item number
NN75 CRYSTALINE® Standart BIOT®	57585
helmet mounted	Item number
KN CRYSTALINE® Standart BIOT®	07585
with fabric seal	Item number
NNV75 CRYSTALINE® Standart BIOT®	01785

helmet mounted	Item number
KN CRYSTALINE® Standart PRESIDENT	05585

KN – welder's protective face shield, mounted on safety helmets by means of adapter
 NN – welding helmet with head gear (eg. RAPID)
 NNV – welding helmet for use with PAPR



adapters for safety helmet mounting

Welding helmets with **Universal ADF***

MAXIMUM VIEWING AREA

ADVANCED COLOR RENDITION

Eye and face protectors

Universal ADF back side view



Universal ADF front side view



Universal ADF optical parameters: 1/1/1/2

- 1 OPTICAL CLASS 1. The best in this parameters category. It defines degree of unwanted optical effects.
- 1 LIGHT DIFFUSION CLASS 1. The best by transparency and opacity absence. Maximum value of reduced luminance factor less than 1 cd m²/lx.
- 1 VARIATION OF LUMINOUS TRANSMITTANCE CLASS 1. The best by transmittance uniformity. Transmittance is approximately identical at any point of the viewing window.
- 2 ANGULAR DEPENDENCY CLASS 2. There are 3 classes of angular dependency. For class 2 luminous transmittance varies through 2 scale numbers when visual axis is not perpendicular to the filter surface.

UNIVERSAL ADF SPECIFICATIONS:

Filter scale number	4/9-13
Viewing area, mm	60 x 100
Optical sensors	4
Optical quality	1/1/1/2
Darkening time, s	0.0001
Fading time, s	0.1-0.9
Manual filter shade control	yes, external
Fading delay control	yes, internal
Optical sensors sensitivity control	yes, internal
Grinding mode	external switch
Power source: Solar cell	yes
Li-Ion internal chargeable battery	yes, changeable
Working temperature range	from -10°C to 70°C
Warranty	three years

Use:
MMA, MIG, MAG, TIG (current > 30A) arc gouging, plasma cutting.



*ADF – Auto Darkening Filter

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Welding helmets with Universal ADF product range

Welding helmet with Universal ADF in **Favori** shell

Favori shell advantages:

- ergonomic design;
- memorable modern design;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material; streamline shape prevents molten metal spray sticking;
- improved protection of head and neck;
- overhead welding.

Welding helmet with Universal ADF in **BIOT** shell

BIOT shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the shell;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Welding helmet with Universal ADF in **PRESIDENT** welder's protective face shield

PRESIDENT welder's face shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the shell;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Recommended for use with safety helmets with shortened peak.

with RAPID headgear	Item number
NN12 CRYSTALINE® Universal Favori®T	51275
helmet mounted	Item number
KN CRYSTALINE® Universal Favori®T	05175
with fabric seal	Item number
NNV12 CRYSTALINE® Universal Favori®T	01275

with RAPID headgear	Item number
NN75 CRYSTALINE® Universal BIOT®	57575
helmet mounted	Item number
KN CRYSTALINE® Universal BIOT®	07575
with fabric seal	Item number
NNV75 CRYSTALINE® Universal BIOT®	01775

helmet mounted	Item number
KN CRYSTALINE® Universal PRESIDENT	05575

KN – welder's protective face shield, mounted on safety helmets by means of adapter
 NN – welding helmet with head gear (eg. RAPID)
 NNV – welding helmet for use with PAPR

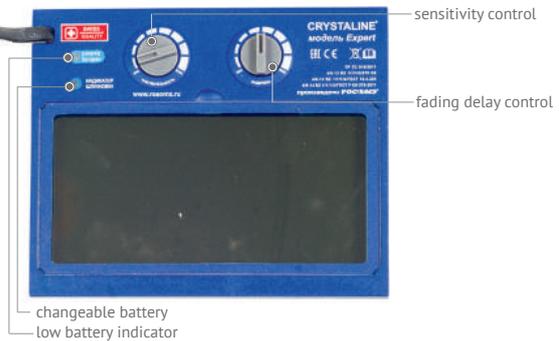


Welding helmets with **Expert ADF***

FOUR OPTICAL SENSORS!

Eye and face protectors

Expert ADF back side view



Expert ADF front side view



Expert ADF optical parameters: 1/1/1/2

- 1 OPTICAL CLASS 1. The best in this parameters category. It defines degree of unwanted optical effects.
- 1 LIGHT DIFFUSION CLASS 1. The best by transparency and opacity absence. Maximum value of reduced luminance factor less than 1 cd m²/lx.
- 1 VARIATION OF LUMINOUS TRANSMITTANCE CLASS 1. The best by transmittance uniformity. Transmittance is approximately identical at any point of the viewing window.
- 2 ANGULAR DEPENDENCY CLASS 2. There are 3 classes of angular dependency. For class 2 luminous transmittance varies through 2 scale numbers when visual axis is not perpendicular to the filter surface.

EXPERT ADF SPECIFICATIONS:

Filter scale number	4/9-13
Viewing area, mm	97×47
Optical sensors	4
Optical quality	1/1/1/2
Darkening time, s	0.0001
Fading time, s	0.1-0.9
Manual filter shade control	yes, external
Fading delay control	yes, internal
Optical sensors sensitivity control	yes, internal
Grinding mode	external switch
Power source: Solar cell Li-Ion internal chargeable battery	yes yes
Working temperature range	from -10°C to 70°C
Warranty	three years

Use:

MMA, MIG, MAG, TIG (current >30A), plasma cutting.



*ADF – Auto Darkening Filter

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Welding helmets with Expert ADF product range

Welding helmet with Expert ADF in **Favori^T** shell

Favori^T shell advantages:

- ergonomic design;
- memorable modern design;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek[®] material; streamline shape prevents molten metal spray sticking;
- improved protection of head and neck;
- overhead welding.

Welding helmet with Expert ADF in **biot^T** shell

biot^T shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the shell;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek[®] material.

Welding helmet with Expert ADF in **PRESIDENT** welder's protective face shield

PRESIDENT welder's face shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the shell;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek[®] material.

Recommended for use with safety helmets with shortened peak.

KN – welder's protective face shield, mounted on safety helmets by means of adapter
 NN – welding helmet with head gear (eg. RAPID)
 NNV – welding helmet for use with PAPR

with RAPID headgear	Item number
NN12 CRYSTALINE [®] Expert Favori [®] T	51295
helmet mounted	Item number
KN CRYSTALINE [®] Expert Favori [®] T	05195
with fabric seal	Item number
NNV12 CRYSTALINE [®] Expert Favori [®] T	01295



with RAPID headgear	Item number
NN75 CRYSTALINE [®] Expert BIOT [®]	57595
helmet mounted	Item number
KN CRYSTALINE [®] Expert BIOT [®]	07595
with fabric seal	Item number
NNV75 CRYSTALINE [®] Expert BIOT [®]	01795



helmet mounted	Item number
KN CRYSTALINE [®] Expert PRESIDENT	05595



adapters for safety helmet mounting

Welding helmets with Premium ADF*

Premium ADF back side view



Premium ADF front side view



MAXIMUM VIEWING AREA

OPTICAL PARAMETERS: 1/1/1/1

ALL TYPES OF WELDING!

ADVANCED COLOR RENDITION

Premium ADF optical parameters: 1/1/1/1

1	OPTICAL CLASS 1. The best in this parameters category. It defines degree of unwanted optical effects.
1	LIGHT DIFFUSION CLASS 1. The best by transparency and opacity absence. Maximum value of reduced luminance factor less than 1 cd m ² /lx.
1	VARIATION OF LUMINOUS TRANSMITTANCE CLASS 1. The best by transmittance uniformity. Transmittance is approximately identical at any point of the viewing window.
1	ANGULAR DEPENDENCY CLASS 1. The best by this parameter that characterizes luminous transmittance changing when visual axis is not perpendicular to the filter surface - through 1 scale number.

PREMIUM ADF SPECIFICATIONS:

Filter scale number	4/5-9/9-13
Viewing area, mm	100×60
Optical sensors	4
Optical quality	1/1/1/1
Darkening time, s	0.0001
Fading time, s	0.1-0.9
Manual filter shade control	yes, internal
Fading delay control	yes, internal
Optical sensors sensitivity control	yes, internal
Grinding mode	internal switch
Power source: Solar cell	yes
Li-Ion internal chargeable battery	yes
Working temperature range	from -10°C to 70°C
Warranty	three years

Use:

MMA, MIG, MAG, TIG (current >30A), plasma welding and cutting, gouging



*ADF – Auto Darkening Filter

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Welding helmets with Premium ADF product range

Welding helmet with Premium ADF in **Favori** shell

Favori shell advantages:

- ergonomic design;
- memorable modern design;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material; streamline shape prevents molten metal spray sticking;
- improved protection of head and neck;
- overhead welding.

Welding helmet with Premium ADF in **bio** shell

bio shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the shell;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Welding helmet with Premium ADF in **PRESIDENT** welder's protective face shield

PRESIDENT welder's face shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the shell;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Recommended for use with safety helmets with shortened peak.

KN – welder's protective face shield, mounted on safety helmets by means of adapter
 NN – welding helmet with head gear (eg. RAPID)
 NNV – welding helmet for use with PAPP

with RAPID headgear	Item number
NN12 CRYSTALINE® Premium Favori®T	51255
helmet mounted	Item number
KN CRYSTALINE® Premium Favori®T	05155
with fabric seal	Item number
NNV12 CRYSTALINE® Premium Favori®T	01255



with RAPID headgear	Item number
NN75 CRYSTALINE® Premium BIOT®	57555
helmet mounted	Item number
KN CRYSTALINE® Premium BIOT®	07555
with fabric seal	Item number
NNV75 CRYSTALINE® Premium BIOT®	01755



helmet mounted	Item number
KN CRYSTALINE® Premium PRESIDENT	05555



adapters for safety helmet mounting

Welding helmets with Profi ADF*

Profi ADF back side view



Profi ADF front side view



*ADF – Auto Darkening Filter

ADVANCED COLOR
RENDITION!

INTERNAL MODE
ADJUSTMENT!

PROFESSIONALS'
CHOICE!

Profi ADF optical parameters: 1/1/1/1

- 1 OPTICAL CLASS 1. The best in this parameters category. It defines degree of unwanted optical effects.
- 1 LIGHT DIFFUSION CLASS 1. The best by transparency and opacity absence. Maximum value of reduced luminance factor less than 1 cd m²/lx.
- 1 VARIATION OF LUMINOUS TRANSMITTANCE CLASS 1. The best by transmittance uniformity. Transmittance is approximately identical at any point of the viewing window.
- 1 ANGULAR DEPENDENCY CLASS 1. The best by this parameter that characterizes luminous transmittance changing when visual axis is not perpendicular to the filter surface - through 1 scale number.

PROFI ADF SPECIFICATIONS:

Filter scale number	4/5-9/9-13
Viewing area, mm	97×47
Optical sensors	4
Optical quality	1/1/1/1
Darkening time, s	0.0001
Fading time, s	0.1-0.9
Manual filter shade control	yes, internal
Fading delay control	yes, internal
Optical sensors sensitivity control	yes, internal
Grinding mode	internal switch
Torch mode	constant scale number 5
Power source: Solar cell	yes
Li-Ion internal chargeable battery	yes
Working temperature range	from -10°C to 70°C
Warranty	three years

Use:

MMA, MIG, MAG, TIG (current >30A), plasma welding and cutting, gouging.

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Welding helmets with Profi ADF product range

Welding helmet with Profi ADF in **Favori** shell

Favori shell advantages:

- ergonomic design;
- memorable modern design;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material;
- streamline shape prevents molten metal spray sticking;
- improved protection of head and neck;
- overhead welding.

Welding helmet with Profi ADF in **bio** shell

bio shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the shell;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Welding helmet with Profi ADF in **PRESIDENT** welder's protective face shield

PRESIDENT welder's face shell ADVANTAGES:

- lightweight helmet shell;
- minimum load to the cervical spine;
- advanced air exchange under the shell;
- streamline shape helps metal spray rolling off;
- shell made of resistant to high and low temperatures, molten metal splashes, sparks, resistant to UV/IR radiation SUPER Termotrek® material.

Recommended for use with safety helmets with shortened peak.

KN – welder's protective face shield, mounted on safety helmets by means of adapter
 NN – welding helmet with head gear (eg. RAPID)
 NNV – welding helmet for use with PAPR

with RAPID headgear	Item number
NN12 CRYSTALINE® Profi Favori®T	51265
helmet mounted	Item number
KN CRYSTALINE® Profi Favori®T	05165
with fabric seal	Item number
NNV12 CRYSTALINE® Profi Favori®T	01265



Available with flip-up filter block

with RAPID headgear	Item number
NN75 CRYSTALINE® Profi BIOT®	57565
helmet mounted	Item number
KN CRYSTALINE® Profi BIOT®	07565
with fabric seal	Item number
NNV75 CRYSTALINE® Profi BIOT®	01765



helmet mounted	Item number
KN CRYSTALINE® Profi PRESIDENT	05565



adapters for safety helmet mounting

Welder's handshield
RN4 CRYSTALINE® CONTACT

50465



Simple usable handshield with semi-automatic welding filter

NO ANALOGS!

Filter specifications:

- scale number in darkened state 11
- scale number in faded state 3
- viewing area, mm 41x 65
- power source CR 2430 Lithium battery
- working temperature range from -5°C to 55°C

Product features.

- Filter initial state is always darkened. In order to make it faded it is necessary to press and hold the button located on upper part of the handle.
- Enlarged shell provides reliable face, neck and top part of a chest protection and good air exchange under the shell.
- Shell is made of polypropylene which is resistant to high and low temperature, molten metal splashes, sparks, UV/IR radiation and moisture.

Use:

complex eye and face protection against UV/IR radiation, sparks and metal spray, hard particles in machine building, ship building, mounting and repair works and other works connected with arc welding at low and elevated temperature. It also recommended to visitors for welding process observation at production site. The handshield shall be used during welding only, after welding finishing it should be put aside. In order to avoid eyes damage important to cover face with a handshield before welding.



Personal Protective Equipment

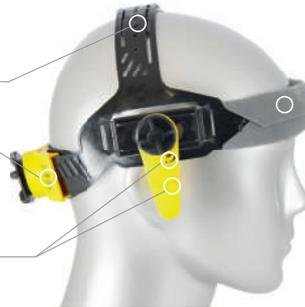
Sales department tel: +7 34275 33 777; 8 800 707 41 84

Types of headgear

Stepped wearing height adjustment

Rack-and-pinion gear for head size adjustment by the knob

TORSION stop reliably locks the shell in upper and lower positions. It also allows to adjust shell tilt in three positions



Detachable sweatband
made of hypoallergenic material



RAPID headgear

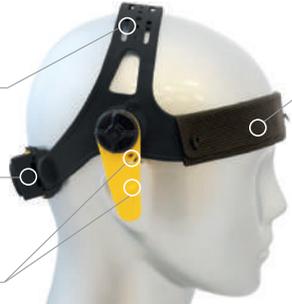


Damper for adherence without excessive pressure

Stepped wearing height adjustment

Rack-and-pinion gear ZEN® for head size adjustment by the button

TORSION stop reliably locks the shell in upper and lower positions. It also allows to adjust shell tilt in three positions



Detachable sweatband
made of hypoallergenic material

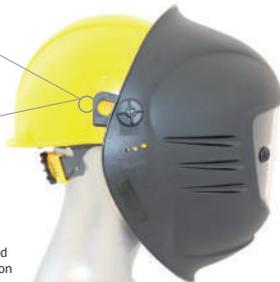


ZEN® headgear

Adapter
with roller/guide welding helmet movement



helmet is lowered to working position



TORSION stop
reliably locks the shell in upper and lower positions



Helmet is lifted – non-working position

Helmet adapters

NN12 e684 *Favori*^T welding helmet 51215

Eye and face protectors



NEW!!

ADVANCED COLOR
RENDITION!

OVERHEAD
WELDING!

AUTOPILOT
FUNCTION!

Welding helmet with completely automatic welding filter with advanced color rendition
(see detail description on pages 108-109)

Use:

all types of arc welding – MMA, MIG, MAG, TIG, flux cored electrode welding, plasma welding and cutting, oxygen cutting.

ADF specifications:

Filter scale number range	4/5-9/9-13
Viewing area, mm	50 x 100
optical parameters	1/1/1/1
Darkening time at room temperature, ms	0.17
Fading time (Twilight Zone Function on), s	0.1 – 2.0
Mass, g	500
Grinding mode	yes
Built-in battery	yes (CR2032)
Working temperature range	from -10°C to 70°C
Working life, hours	3000 (approx.)



Grinding mode



Overhead welding



Suitable for use with respirator



Optical sensors viewing angle adjustment



Optical sensors sensitivity adjustment



External filter shade adjustment



Precise color rendition

With RAPID headgear	Item number
NN12 e684 Favori ^T	51215
Helmet mounted	Item number
KN e684 Favori ^T	05115

Welding helmet with completely automatic welding filter



Four degrees of freedom



Available in BIOT® and PRESIDENT shell on request

With RAPID headgear	Item number
NN75 e684 BIOT®	57515
Helmet mounted	Item number
KN e684 BIOT®	07515



Helmet mounted	Item number
KN e684 PRESIDENT	05515



Use with safety helmet

e684 welding helmet

1006.500



Mass: 512 g

e684 welding helmet with fabric seal

4441.600



Welding helmet with completely automatic welding filter with advanced color rendition and 5-13 variable filter shade.

Features:

- streamline shape of the shell;
- bended outer protective lens with silicone seal prevents welding smoke ingress under the shell;
- ideal for welding in restricted areas;
- shell reflective coating reduces temperature under the shell by 23% comparatively to conventional welding helmets;
- easy protective plate replacement;
- external filter shade adjustments;
- reliable headgear retention;
- most lightweight welding helmet with ADF;
- Autopilot function of filter shade adjustment;
- Twilight Zone function provides smooth transition from darkened to faded state;
- "Super sensitivity" mode for work with hidden arc;
- minimum angular dependence;
- Enlarged viewing area 50 x 100 mm

ADVANCED COLOR
RENDITION!

PROFESSIONALS'
CHOICE!

- working temperature range from -10°C to 70°C;
- protection and comfort for high productivity.

Use:

all types of arc welding – MMA, MIG, MAG, TIG, flux cored electrode welding, plasma welding and cutting, oxygen cutting.



Grinding mode



Overhead welding



Suitable for use with respirator



Optical sensors view-angle adjustment



Optical sensors sensitivity adjustment



Precise color rendition



External filter shade adjustment

Personal Protective Equipment

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AUTOPILOT function



Automatic filter shade control in dependence of the arc current and environment conditions.

"N" - neutral position -
Autopilot off

Choose
Autopilot



If arc current increases, filter becomes darker

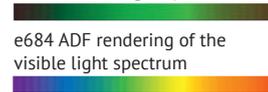
If arc current decreases, filter becomes lighter

True color – unsurpassed color rendition



Specially designed UV/IR filter provides natural color perception, bring natural colors to the welder's world.

Conventional ADF rendering of the visible light spectrum.



e684 ADF rendering of the visible light spectrum



Sensitivity control



Sensitivity of optical sensors can be adjusted from "super high" to standard level by adjustment knob rotation.

"**Super high**" mode corresponds maximum sensitivity. "Super high" mode is useful when arc current is low or an arc is shaded.

"**Standard**" mode is useful when interference (illumination, adjacent welders work) must be excluded.

Grinding mode

ADF cutoff during grinding operation.



Press to turn on/off

GRINDING MODE OFF – ADF automatically darkened at arc ignition.

GRINDING MODE ON – ADF automatically darkened at arc ignition



Twilight Zone mode

Welder may use filter fading delay function in order to avoid eye discomfort at fast transition from darkness to light. Twilight Zone mode used in e684 ADF brings it into faded state by the most natural way providing smooth transition from darkness to light. This reduces eye fatigue, so welder can work longer and more safe.



Recommended use of different scale numbers for various welding processes

Scale number to be used for gas welding and braze welding

Work	Acetylene flow rate in liters per hour			
	Less than 70	70 - 200	200 - 800	More than 800
Scale number	4	5	6	7

Scale number to be used for oxygen cutting

Work	Acetylene flow rate in liters per hour			
	Less than 70	70 - 200	200 - 800	More than 800
Scale number	4	5	6	7

Process	International process designation	Current, A																			
		1,5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500
Covered electrode	 MMA	8				9		10		11		12		13		14					
Arc welding in inert gas	 MAG	8				9		10		11		12		13		14					
Arc welding with tungsten electrode in inert gas	 TIG	8				9		10		11		12		13							
Arc welding of heavy metals (stainless steel, copper and its alloys) in inert gas	 MIG	9						10		11		12		13		14					
Arc welding of heavy alloys in inert gas	 MIG	10								11		12		13		14					
Air-arc gouging		10								11		12		13		14		15			
Plasma jet cutting	 PLASMA	9						10		11		12		13							
Micro-plasma arc welding	 PLASMA	4	5	6	7	8	9	10		11		12									

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Eye and face protectors

Scale number to be used by welder's assistant

Work:	Arc current , A																			
	1,5	6	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500
Welder's assistant is in working area away from welding place	5-3,1				3				4				5							
Welder's assistant is in working area in close proximity to welding place	7								8				9				10			

If the use of a filter chosen from above tables causes sensation of discomfort then work conditions and welder's vision should be examined

Higher scale numbers use may not always be true, it may be even a disadvantage. Filter with too high scale number enforces a welder to be near to the source of harmful radiation and to inhale harmful smoke.

For works outside at high illumination level the use of a filter with one scale number higher is allowed.

It is necessary to provide adequate protection to those who are in working area. Generally scale numbers up to 4 are used. However, higher scale numbers may be used if it is stipulated by risk level, especially when assistant is at the same distance from the arc. In this case he/she should use same scale number as the welder.

Recommendations for choice of the welding helmet with CRYSTALINE® ADF depending on arc welding type

Filter model	FILTER MODEL						
	Yamal	Standart	Universal	Expert	Profi	Premium	e684
Scale number	4/9-13	4/9-13	4/9-13	4/9-13	4/5-9/9-13	4/5-9/9-13	4/5-13
Manual arc welding (MMA)	Green	Green	Green	Green	Green	Green	Green
Semiautomatic welding (MIG/MAG)	Green	Green	Green	Green	Green	Green	Green
Argon-arc welding, I > 30A (TIG)	Red	Yellow	Green	Green	Green	Green	Green
Argon-arc welding, I = (1 – 30) A	Red	Red	Yellow	Yellow	Green	Green	Green
Night welding at bright electric illumination	Red	Red	Red	Red	Green	Green	Green
Risk of hidden arc	Red	Red	Red	Red	Green	Green	Green
Grinding	Red	Red	Green	Green	Green	Green	Green
Contemporary work of some welders near each other	Red	Red	Yellow	Red	Yellow	Green	Green
Gouging	Yellow	Green	Green	Green	Yellow	Yellow	Green
Plasma welding	Red	Red	Red	Red	Green	Green	Green
Plasma cutting	Green	Green	Green	Green	Green	Green	Green
	Yamal	Standart	Universal	Expert	Profi	Premium	e684

TIG (Tungsten Inert Gas) - arc welding with non-melting electrode in inert protective gas.

MIG (Metal Inert Gas) - arc welding with melting electrode (wire) in inert protective gas with automatic wire feed.

MAG (Metal Active Gas) - arc welding with melting electrode (wire) in active gas with automatic wire feed.

MMA (Manual Metal Arc) - Manual arc welding with covered electrode.

Air-arc gouging is based on metal melting by electric arc with molten metal blowing out by the compressed air jet.

- best choice
- good
- not recommended

Summary table of automatic welding filters specifications

Filter model	Yamal	Standart	Universal	Expert	Premium	Profi	e684
1. Viewing area dimensions, mm	92×42	100×49	100×60	97×47	100×60	97×47	100×50
2. Filter class	1/1/1/2	1/1/1/2	1/1/1/2	1/1/1/2	1/1/1/1	1/1/1/1	1/1/1/1
3. Scale number:							
3.1. Faded state	4	4	4	4	4	4	4
3.2. Darkened state	9-13	9-13	9-13	9-13	5-9 9-13	5-9 9-13	5-13
4. Darkening time, s	0.0005	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001
5. Fading delay time, s	0.1–0.9	0.1–0.9	0.1–0.9	0.1–0.9	0.1–0.9	0.1–0.9	0.1–2.0
6. Manual scale number control	external	external	external	external	external	internal	external/ automatic
7. Delay time switch	internal	internal	yes	yes	external	yes	yes
8. Optical sensor sensitivity control	manual	manual	manual	manual	manual	manual	manual
9. Optical sensor	2	2	4	4	4	4	3
10. Grinding mode	no	no	external switch	external switch	external switch	internal switch	external switch
11. Power source:							
11.1. Solar cell	yes	yes	yes	yes	yes	yes	yes
11.2. Li-ion chargeable batter	yes	yes	changeable	yes	changeable	changeable	changeable
12. Working temperature range, °C	from -5°C to +70°C	from -10°C to +70°C					

NN3 SUPER PREMIER Favorit™ welding helmets

INTENSIVE WELDING

Eye and face protectors



Panoramic cover lens included

ERC

 Optical class one.

Features:

- increased size shell made of SUPER Termotrek material (Zytel Polyamide 66 by Dupont) resistant to high and low temperature, sparks and metal spray, UV/IR radiation;
- working temperature range from -60°C to 180°C;
- Internal space provides good air exchange;
- shell streamline shape exceeds metal spray adherence;
- mineral glass passive filter, available scale numbers from 9 to 14, optical class 1;
- panoramic cover lens (comes together with helmet) for filter protection against sparks, metal spray and hard particles at extremes of temperature;
- no tool is needed for filter replacement.

Use:

complex protection of welder's eye and face against arc radiation, sparks and metal spray at all types of work in all branches of industry.



NN3 SUPER PREMIER *Favori®T* model range

- **NN3 SUPER PREMIER Favori®T**
with RAPID headgear



Scale number	Item number
9	53363
10	53364
11	53365
12	53366
13	53367
14	53368

Mass: 470 g

- **KN Super PREMIER Favori®T**
helmet mounted

For helmets
with shortened
peak



Scale number	Item number
9	05663
10	05664
11	05665
12	05666
13	05667
14	05668

Mass: 406 g

Components

Item number	Designation	Description	Content	Item number	Designation	Description	Content
00630	Set of panoramic cover lenses	Cover lens for welding helmets in Favori®T shell including those with ADF	5 lenses + 10 locking buttons	00207	Set of non-fogging PC back plates 110 x 90 mm	PC non-fogging back plates for all welding helmets with passive filter	Set of 10 pieces
00230	Set of PC cover plates 110 x 90 mm	Cover and back PC plates for all welding helmets with passive filter	Set of 10 pieces	00490	Flame resistant forehead sweatband	Changeable soft hypoallergic sweatband made of 100% cotton. Provides better comfort.	Set of 2 pieces
00263-00268	Set of filters 110 x 90 mm, 9-14 scale number	Mineral glass filters for all welding helmets with passive filter	Set of 10 pieces in branded box	00495	Flame resistant nape pad	Changeable soft hypoallergic nape pad made of 100% cotton. Provides better comfort.	Set of 2 pieces
00363-00368	Set of filters/cover plates 110 x 90 mm	Set comprises of mineral glass filters, scale number 9-14 and PC protective plates	5 filters + 5 plates in branded box				

NN10 PREMIER Favori-T welding helmets

TOP SELLER!

Eye and face protectors



Features:

- increased size shell made of Termotrek® material resistant to high and low temperature, sparks and metal spray, UV/IR radiation and moisture;
- working temperature range from -40°C to 80°C;
- internal space provides good air exchange;
- shell streamline shape exceeds metal spray adherence;
- mineral glass passive filter, available scale numbers from 9 to 14, optical class 1;
- filter protected against sparks, metal spray with cover plate outside and back plate inside;
- no tools are needed for filter and cover plates replacement.

Use:

complex protection of welder's eye and face against arc radiation, sparks and metal spray at all types of work in all branches of industry.



ERC CE

 Optical class one.

NN10 PREMIER *Favori*^{®T} model range

- **NN10 PREMIER Favori^{®T} with RAPID headgear**



Scale number	Item number
9	51363
10	51364
11	51365
12	51366
13	51367
14	51368

Mass: 394 g

- **RZ10 PREMIER Favori^{®T} with ZEN[®] headgear**



Scale number	Item number
9	55163
10	55164
11	55165
12	55166
13	55167
14	55168

Mass: 395 g

- **KN PREMIER Favori^{®T} helmet mounted**

For helmets with shortened peak



Scale number	Item number
9	05363
10	05364
11	05365
12	05366
13	05367
14	05368

Mass: 384 g

Components

Item number	Designation	Description	Content	Item number	Designation	Description	Content
00230	Set of panoramic cover lenses	Cover lens for welding helmets in Favori ^{®T} shell including those with ADF	5 lenses + 10 locking buttons	00207	Set of non-fogging PC back plates 110 x 90 mm	PC non-fogging back plates for all welding helmets with passive filter	Set of 10 pieces
00263-00268	Set of PC cover plates 110 x 90 mm	Cover and back PC plates for all welding helmets with passive filter	Set of 10 pieces	00490	Flame resistant forehead sweatband	Changeable soft hypoallergic sweatband made of 100% cotton. Provides better comfort.	Set of 2 pieces
00363-00368	Set of filters/cover plates 110 x 90 mm	Set comprises of mineral glass filters, scale number 9-14 and PC protective plates	5 filters + 5 plates in branded box	00495	Flame resistant nape pad	Changeable soft hypoallergic nape pad made of 100% cotton. Provides better comfort.	Set of 2 pieces

NN7 PREMIER Favori T 2 welding helmet

GRINDING!

Eye and face protectors



Features:

- increased size shell made of Termotrek® material resistant to high and low temperature, sparks and metal spray, UV/IR radiation and moisture;
- working temperature range from -40°C to 80°C;
- internal space provides good air exchange;
- shell streamline shape exceeds metal spray adherence;
- mineral glass passive filter, available scale numbers from 9 to 14, optical class 1;
- filter protected against sparks, metal spray with cover plate outside and back plate inside;
- no tools are needed for filter and cover plates replacement;
- flip-up filter block is locking in two positions (up/down), allows to work in restricted areas and to make grinding without helmet taking off.

Use:

complex protection of welder's eye and face against arc radiation, sparks and metal spray at all types of work in all branches of industry.



Optical class one.

NN7 PREMIER *Favori*[®]T 2 model range

- **NN7 PREMIER *Favori*[®]T2 with RAPID headgear**



Scale number	Item number
9	50763
10	50764
11	50765
12	50766
13	50767
14	50768

Mass: 456 g

- **KN PREMIER *Favori*[®]T2 helmet mounted**

For helmets with shortened peak



Scale number	Item number
9	05763
10	05764
11	05765
12	05766
13	05767
14	05768

Mass: 425 g

Components

Item number	Designation	Description	Content	Item number	Designation	Description	Content
00230	Set of panoramic cover lenses	Cover lens for welding helmets in <i>Favori</i> [®] T shell including those with ADF	5 lenses + 10 locking buttons	00207	Set of non-fogging PC back plates 110 x 90 mm	PC non-fogging back plates for all welding helmets with passive filter	Set of 10 pieces
00263-00268	Set of PC cover plates 110 x 90 mm	Cover and back PC plates for all welding helmets with passive filter	Set of 10 pieces	00490	Flame resistant forehead sweatband	Changeable soft hypoallergic sweatband made of 100% cotton. Provides better comfort.	Set of 2 pieces
00363-00368	Set of filters/cover plates 110 x 90 mm	Set comprises of mineral glass filters, scale number 9-14 and PC protective plates	5 filters + 5 plates in branded box	00495	Flame resistant nape pad	Changeable soft hypoallergic nape pad made of 100% cotton. Provides better comfort.	Set of 2 pieces

NN 75 *biot*® welding helmet

LIGHTWEIGHT!



increased space under the shell for respirator

maximum neck protection

Features:

- shell made of Termotrek® material resistant to high and low temperature, sparks and metal spray, UV/IR radiation and moisture;
- minimum load to the cervical spine;
- internal space provides good air exchange;
- shell streamline shape exceeds metal spray adherence;
- no tools are needed for filter and cover plates replacement;
- low mass: 260 g without filter.

Use:

complex protection of welder's eye and face against arc radiation, sparks and metal spray at all types of work in all branches of industry.



ENI CE



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

NN75 *BIOT*® model range

- **NN75 BIOT®**
with RAPID® headgear



Scale number	Item number
9	57763
10	57764
11	57765
12	57766
13	57767
14	57768

Mass: 384 g

- **RZ75 BIOT®**
with ZEN® headgear



Scale number	Item number
9	57363
10	57364
11	57365
12	57366
13	57367
14	57368

Mass: 380 g

- **KN BIOT®**
helmet mounted



Scale number	Item number
9	07763
10	07764
11	07765
12	07766
13	07767
14	07768

Mass: 306 g

For helmets
with shortened
peak

Components

Item number	Designation	Description	Content	Item number	Designation	Description	Content
00230	Set of panoramic cover lenses	Cover lens for welding helmets in Favori®T shell including those with ADF	5 lenses + 10 locking buttons	00207	Set of non-fogging PC back plates 110 x 90 mm	PC non-fogging back plates for all welding helmets with passive filter	Set of 10 pieces
00263-00268	Set of PC cover plates 110 x 90 mm	Cover and back PC plates for all welding helmets with passive filter	Set of 10 pieces	00490	Flame resistant forehead sweatband	Changeable soft hypoallergic sweatband made of 100% cotton. Provides better comfort.	Set of 2 pieces
00363-00368	Set of filters/cover plates 110 x 90 mm	Set comprises of mineral glass filters, scale number 9-14 and PC protective plates	5 filters + 5 plates in branded box	00495	Flame resistant nape pad	Changeable soft hypoallergic nape pad made of 100% cotton. Provides better comfort.	Set of 2 pieces

KN PRESIDENT welder's protective face shield, helmet mounted

LIGHTWEIGHT!

Eye and face protectors



Features:

- shell made of Termotrek® material resistant to high and low temperature, sparks and metal spray, UV/IR radiation and moisture;
- internal space provides good air exchange;
- minimum load to the cervical spine;
- simple helmet mounting system withstand heavy industrial conditions;
- no tools are needed for filter and cover plates replacement;
- low mass: 336 g without filter.



Heat resistant adapter for safety helmet mounting

For hearing protection we recommend **SOMZ-55 Shturm (60105)** helmet mounted earmuff providing protection up to 107dB noise level.

Attaches to the safety helmet by means of heat resistant adapters. Recommended for use with helmets with shortened peak.

Item number	Filter scale number
05863	9
05864	10
05865	11
05866	12
05867	13
05868	14

Use:

complex protection of welder's eye and face against arc radiation, sparks and metal spray at all types of work in all branches of industry.

TORSION stop locks the helmet in working position (lowered)



TORSION stop locks the helmet in working position (lifted)



EAC

Mass: no more than 280 g.

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Summary table of automatic welding filters specifications

Scale number model name/item number	9	10	11	12	13	14	Shell model
NN3 Super Premier Favori [®] T	53363	53364	53365	53366	53367	53368	
KN Super Premier Favori [®] T	05663	05664	05665	05666	05667	05668	
NN10 Premier Favori [®] T	51363	51364	51365	51366	51367	51368	
RZ10 Favori [®] T ZEN [®]	55163	55164	55165	55166	55167	55168	
KN Premier Favori [®] T	05363	05364	05365	05366	05367	05368	
NN7 Premier Favori [®] T2	50763	50764	50765	50766	50767	50768	
KN Premier Favori [®] T2	05763	05764	05765	05766	05767	05768	
NN75 BIOT [®] RAPID	57763	57764	57765	57766	57767	57768	
RZ75 BIOT [®] ZEN [®]	57363	57364	57365	57366	57367	57368	
KN BIOT [®]	07763	07764	07765	07766	07767	07768	
KN President	05863	05864	05865	05866	05867	05868	

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

NBT STAL Profi protective face shield

Universal lightweight model



NBT2 STAL Profi

■ Lightweight model

■ Diminished forehead guard
■ Improved ventilation

NEW!

Features:

- visor made of steel fine-meshed net (0.7 x 0.7 mm cell size) provides protection against high speed particles (low energy impact $V = 45$ m/s);
- diminished forehead guard made of heat/impact resistant Termotrek® material;
- headgear with adjustable wearing height and head size that reliably retain the face shield on user's head;
- soft changeable sweatband.

Recommended for eye and face protection:

- in machine building at high speed turning, grinding etc;
- in agriculture at such works as landscaping, bush trimming and cutting etc;
- in timber industry at harvesting operation, woodworking;
- at other works in especially hard and hazardous conditions with high humidity, temperature.



Model name:	NBT3 STAL Profi
Headgear:	STANDART
Item number:	413436
Visor:	fine mesh ocular
Visor dimensions:	190 x 220 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	190 g



Model name:	NBT2 STAL Profi
Headgear:	ZEN®
Item number:	433436
Visor:	fine mesh ocular
Visor dimensions:	190 x 220 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	200 g



Model name:	NBT2 STAL Profi
Headgear:	RAPID
Item number:	423436
Visor:	fine mesh ocular
Visor dimensions:	190 x 220 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	216 g

ERC



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

NBT STAL Expert protective face shield

Features:

- visor made of steel coarse-meshed net (2 x 2 mm cell size) provides protection against high speed particles (low energy impact $V = 45$ m/s);
- diminished forehead guard made of heat/impact resistant Termotrek® material;
- headgear with adjustable wearing height and head size that reliably retain the face shield on user's head;
- soft changeable sweatband.

Recommended for eye and face protection:

- in construction, mounting, repair works etc;
- in timber industry at harvesting operation, woodworking;
- road construction and bridge engineering;
- at other works where risk of face traumatizing by coarse debris is present.



Model name:	NBT1 STAL Expert
Headgear:	STANDART
Item number:	413426
Visor:	fine-mesh ocular
Visor dimensions:	190 x 220 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	186 g



Model name:	NBT2 STAL Expert
Headgear:	RAPID
Item number:	423426
Visor:	fine-mesh ocular
Visor dimensions:	190 x 220 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	213 g



Model name:	NBT3 STAL Expert
Headgear:	ZEN®
Item number:	433426
Visor:	fine-mesh ocular
Visor dimensions:	190 x 220 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	197 g



RAPID headgear

NBT2 STAL Expert



NBT VISION® protective face shield

Universal lightweight model

TOP SELLER!

Eye and face protectors



Features:

- enlarged ergonomic visor made of impact resistant clear PC;
- elongate visor provides neck protection against mechanical effects;
- visor optical class one;
- place for a logo is anticipated on the forehead guard;
- headgear with adjustable wearing height and head size that reliable retains the face shield on user's head;
- soft changeable sweatband.

Recommended

for eye and face protection against high speed particles, sparks, droplets of liquids, UV radiation in wide temperature range. Suitable for corrective spectacles and respirator use.

Model name:	NBT1 VISION®
Headgear:	STANDART
Item number:	413130
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	CRAFTER
Working temperature range:	from -30°C to +110°C
Mass:	184 g



Model name:	NBT3 VISION®
Headgear:	ZEN®
Item number:	433130
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	CRAFTER
Working temperature range:	from -30°C to +110°C
Mass:	198 g

NBT1 VISION®



Model name:	NBT2 VISION®
Headgear:	RAPID
Item number:	423130
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	CRAFTER
Working temperature range:	from -30°C to +110°C
Mass:	208 g



ERC



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

NBT VISION® Start protective face shield

Features:

- lightweight ergonomic visor made of 0.75 mm thick PC sheet provides eye and face protection against high speed particles ($V = 45 \text{ m/s}$);
- visor shape usable for work in restricted area;
- diminished forehead guard made of impact resistant CRAFTER material;
- visor attachment with clicks, no metal mounting parts.

Recommended:

for eye and face protection against high speed particles, sparks, droplets of liquids, UV radiation in wide temperature range.



Model name:	NBT1 VISION® Start
Headgear:	STANDART
Item number:	413140
Visor:	PC
Visor dimensions:	190 x 388,9 mm
Forehead guard material:	CRAFTER
Working temperature range:	from -30°C to +110°C
Mass:	148 g



Model name:	NBT2 VISION® Start
Headgear:	RAPID
Item number:	423140
Visor:	PC
Visor dimensions:	190 x 388,9 mm
Forehead guard material:	CRAFTER
Working temperature range:	from -30°C to +110°C
Mass:	174 g



Model name:	NBT3 VISION® Start
Headgear:	ZEN®
Item number:	433140
Visor:	PC
Visor dimensions:	190 x 388,9 mm
Forehead guard material:	CRAFTER
Working temperature range:	from -30°C to +110°C
Mass:	159 g



NBT2 VISION® Start



NBT VISION® protective face shield

Advanced protection against mechanical effects

IMPACT RESISTANT!

Eye and face protectors



Features:

- enlarged visor made of impact resistant clear PC or fine-meshed net (0.7 x 0.7 mm cell size);
- elongate visor provides neck protection against mechanical effects;
- visor optical class one;
- enlarged forehead guard made of impact/heat resistant Termotrek® material;
- place for a logo is anticipated on the forehead guard;
- headgear with adjustable wearing height and head size that reliably retain the face shield on user's head;
- soft hygienic changeable sweatband made of Meditex material.

Recommended:

- item numbers 415291, 425190, 435190, 435291:**
- for eye and face protection against high velocity particles, sparks, droplets of liquids, UV radiation in wide temperature range;
- item numbers 425416, 435416:**
- for eye and face protection in machine building at high speed turning, grinding etc;
 - in agriculture at such works like landscaping, bush trimming and cutting etc;
 - in timber industry at harvesting operation, woodworking;
 - at other works in especially hard and hazardous conditions with high humidity, temperature.

PC visor 2 mm thick provides protection against high speed particles (high energy impact $V = 190$ m/s)

Mesh visor provides protection against high speed particles (low energy impact $V = 45$ m/s)

NBT2 VISION®



Model name:	NBT2 VISION®
Headgear:	RAPID
Item number:	425190
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	312 g



Model name:	NBT3 VISION®
Headgear:	ZEN®
Item number:	435190
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	302 g



Model name:	NBT2 VISION® STAL
Headgear:	RAPID
Item number:	425416
Visor:	fine-mesh ocular
Visor dimensions:	235 x 390 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	310 g



Model name:	NBT1 VISION® with chin guard
Headgear:	STANDART
Item number:	415291
Visor:	PC
Visor dimensions:	180 x 285 mm
Forehead guard material:	Termotrek®/ Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	306 g



Model name:	NBT3 VISION® with chin guard
Headgear:	ZEN®
Item number:	435291
Visor:	PC
Visor dimensions:	180 x 285 mm
Forehead guard material:	Termotrek®/Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	320 g



Model name:	NBT3 VISION® STAL
Headgear:	ZEN®
Item number:	435416
Visor:	fine-mesh ocular
Visor dimensions:	235 x 390 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	300 g



Visor marking:

2C-1.2	Scale number
Ⓡ(RZ)	Manufacturer ID
1	Optical class one
FT	Symbol of resistance to high speed particles (low energy impact 0.84 J V= 45 m/s) at extremes of temperature
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids

NBT Vision TITAN® protective face shield

Advanced protection against mechanical effects

WIDE FIELD OF VIEW!



*NBT3 VISION® TITAN

Features:

- enlarged visor made of impact resistant clear PC;
- elongate visor provides neck protection against mechanical effects;
- Classic diminished visor is also available;
- visor optical class one;
- place for a logo is anticipated on the transparent enlarged forehead guard;
- headgear with adjustable wearing height and head size that reliable retain the face shield on user's head;
- soft changeable sweatband made of Meditex material.

PC visor 2 mm thick and transparent forehead guard STRONG provides protection against high speed particles (high energy impact V = 190 m/s)

Recommended:

- item numbers 414290, 414291, 434290, 434291, 434390, 434391:**
- for eye and face protection at construction and mounting works at height due transparent forehead guard that provides widened view; **item numbers 424390, 424391:**
 - for eye and face protection in machine building at high speed turning, grinding etc;
 - in agriculture at such works like landscaping, bush trimming and cutting etc;
 - in timber industry at harvesting operation, woodworking;
 - at other works in especially hard and hazardous conditions with high humidity and temperature.

Visor marking:

2C-1.2	Scale number
👁️ (RZ)	Manufacturer ID
1	Optical class one
FT	Symbol of resistance to high speed particles (low energy impact 0.84 J V= 45 m/s) at extremes of temperature
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids



EAC

Model name:	NBT1 VISION® classic TITAN
Headgear:	STANDART
Item number:	414290
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	STRONG
Working temperature range:	from -50°C to +130°C
Mass:	296 g



Model name:	NBT2 VISION® TITAN
Headgear:	RAPID
Item number:	424390
Visor:	PC
Visor dimensions:	220 x 385 mm
Forehead guard material:	STRONG
Working temperature range:	from -50°C to +130°C
Mass:	342 g



Model name:	NBT2 VISION® TITAN with chin guard
Headgear:	RAPID
Item number:	424391
Visor:	PC
Visor dimensions:	200 x 385 mm
Forehead guard material:	STRONG/ STRONG
Working temperature range:	from -50°C to +130°C
Mass:	382 g



Model name:	NBT1 VISION® classic TITAN with chin guard
Headgear:	STANDART
Item number:	414291
Visor:	PC
Visor dimensions:	180 x 285 mm
Forehead guard material:	STRONG/ STRONG
Working temperature range:	from -50°C to +130°C
Mass:	320 g



Model name:	NBT3 VISION® classic TITAN
Headgear:	ZEN®
Item number:	434290
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	STRONG
Working temperature range:	from -50°C to +130°C
Mass:	310 g



Model name:	NBT3 VISION® TITAN
Headgear:	ZEN®
Item number:	434390
Visor:	PC
Visor dimensions:	220 x 385 mm
Forehead guard material:	STRONG
Working temperature range:	from -50°C to +130°C
Mass:	334 g



Model name:	NBT3 VISION® TITAN with chin guard
Headgear:	ZEN®
Item number:	434391
Visor:	PC
Visor dimensions:	200 x 385 mm
Forehead guard material:	STRONG/ STRONG
Working temperature range:	from -50°C to +130°C
Mass:	376 g



Model name:	NBT3 VISION® classic TITAN with chin guard
Headgear:	ZEN®
Item number:	434291
Visor:	PC
Visor dimensions:	180 x 285 mm
Forehead guard material:	STRONG/ STRONG
Working temperature range:	from -50°C to +130°C
Mass:	332 g



NBT VISION® Termo protective face shield

Heat and impact resistant

RELIABLE PROTECTION!



Features:

- enlarged visor with rounded bottom part made of impact resistant clear PC;
- elongate visor provides neck protection against mechanical effects and high temperature;
- visor optical class one;
- enlarged forehead guard made of SUPER Termotrek® (Zytel PA 66 by Dupont) material;
- place for a logo is anticipated on the forehead;
- headgear with adjustable wearing height and head size that reliably retain the face shield on user's head;
- soft changeable sweatband made of split leather;
- suitable for corrective spectacles and respirator use.

Recommended:

- **item numbers 417290, 427290, 437290:** for eye and face protection against sparks, droplets of liquids, molten metal splashes and heat radiation in various branches of industry;
- **item numbers 427390, 427391** (with chin guard): for eye and face protection at metal works with cooling liquids use, works where debris may appear, in chemical labs, painting and works with electric/pneumatic tools;
- **item numbers 437390, 437391** (with chin guard): for eye and face protection against heat radiation, molten metal splashes, sparks at works near industrial furnaces.

NBT3/C VISION® classic Termo



Recommended to metallurgists for use together with OK1 and OK3 furnace observation glasses

ERC



Model name:	NBT1/C VISION® classic Termo
Headgear:	STANDART
Item number:	417290
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	302 g



Model name:	NBT2/C VISION® classic Termo
Headgear:	RAPID
Item number:	427290
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	326 g



Model name:	NBT3/C VISION® classic Termo
Headgear:	ZEN®
Item number:	437290
Visor:	PC
Visor dimensions:	220 x 315 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	314 g



Visor marking:

2C-1.2	Scale number
Ⓡ(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids

Model name:	NBT2/C VISION® Termo TITAN
Headgear:	RAPID
Item number:	427390
Visor:	PC
Visor dimensions:	220 x 385 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	358 g



Model name:	NBT3/C VISION® Termo TITAN
Headgear:	ZEN®
Item number:	437390
Visor:	PC
Visor dimensions:	220 x 385 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	342 g



Model name:	NBT2/C VISION® Termo TITAN
Headgear:	RAPID
Item number:	427391
Visor:	PC
Visor dimensions:	200 x 385 mm
Forehead guard material:	SUPER Termotrek®/ SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	392 g



Model name:	NBT3/C VISION® Termo TITAN
Headgear:	ZEN®
Item number:	437391
Visor:	PC
Visor dimensions:	200 x 385 mm
Forehead guard material:	SUPER Termotrek®/ SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	374 g



NBT SUPER VISION® protective face shield

NON-FOGGING!

Non-fogging visor, heat protection

screw and nut made of heat resistant plastic



NBT2 SUPER VISION®

Features:

- enlarged visor with rounded bottom part made of impact resistant clear plastic;
- elongate visor provides neck protection against mechanical effects and high temperature;
- hard/anti-fog visor coating;
- visor optical class one;
- enlarged forehead guard made of SUPER Termotrek® material;
- place for a logo is anticipated on the forehead;
- headgear with adjustable wearing height and head size that reliable retain the face shield on user's head;
- soft changeable sweatband made of split leather;
- suitable for corrective spectacles and respirator use.

Specific features of the visor and forehead:

- **PC visor** 1 mm thick with hard/anti-fog coating provides protection against high speed particles (high energy impact).
- **CA (Cellulose acetate) visor** is not resistant to elevated temperature, resistant to some chemicals, offers self-polishing and anti-static properties, provides protection against high speed particles (medium energy impact). Visor coating: hard on front side, anti-fog on back side.
- **Forehead guard** made of SUPER Termotrek® material protects forehead and front part of the head against UV/IR radiation, sparks and metal spray.

Recommended:

for eye and face protection against sparks and droplets of liquids upon work in humid environments, at low temperature operation, at painting.

ERC



Model name:	NBT2 SUPER VISION®
Headgear:	RAPID
Item number:	427107
Visor:	CA
Visor dimensions:	220 x 315 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +80°C
Mass:	296 g



Model name:	NBT2 SUPER VISION®
Headgear:	RAPID
Item number:	427397
Visor:	PC
Visor dimensions:	220 x 385 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	352 g



Model name:	NBT3 SUPER VISION®
Headgear:	ZEN®
Item number:	437107
Visor:	CA
Visor dimensions:	220 x 315 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +80°C
Mass:	286 g



Model name:	NBT3 SUPER VISION®
Headgear:	ZEN®
Item number:	437397
Visor:	PC
Visor dimensions:	220 x 385 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	342 g



Visor (CA) marking:

2-1.2	Filter scale number
(RZ)	Manufacturer ID
1	Optical class one
BT	Symbol of resistance to high speed particles (medium energy impact 5.9 J V= 120 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids and hot solids
N	Symbol of resistance to fogging

Visor (PC) marking:

2C-1.2	Scale number
(RZ)	Manufacturer ID
1	Optical class one
A	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to surface damaging by fine particles
N	Symbol of resistance to fogging

NBTM VISION® Termo protective face shield

UNIQUE!

Impact/heat resistant, reflective visor



Features:

- enlarged PC visor with pure gold reflective coating for advanced protection;
- heat energy attenuation up to 90%;
- temperature beside the visor is not higher than 45°C upon work near hot oven;
- protection against glaring brightness of the molten metal;
- protection against near IR radiation in 800-2500 nm wavelength band;
- eye and face protection against heat, sparks, metal spray in wide temperature range;
- suitable for corrective spectacles and respirator use.

We strongly recommend to wipe the visor gently with dry soft clothes because gold coating is not resistant to abrasion.

Recommended:

for use in hot environments in metallurgy, machine building at forging, hot pressing and rolling.



Model name:	NBT2M/C VISION® Termo
Headgear:	RAPID
Item number:	427351
Visor material:	gold plated PC
Visor dimensions:	240 x 395 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +250°C
Mass:	380 g



Model name:	NBT3M/C VISION® Termo
Headgear:	ZEN®
Item number:	437351
Visor material:	gold plated PC
Visor dimensions:	240 x 395 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +250°C
Mass:	360 g

Visor marking:

5/4-5	Scale number
(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids
R	sSymbol of enhanced reflectance



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

NBT SUPER VISION® protective face shield

UNIQUE!

Non-fogging

Features:

- scale number 5 visor for eye and face protection against bright visible light, UV/IR radiation, high speed particles (medium energy impact);
- enlarged visor with rounded bottom part made of impact resistant PC;
- elongate visor provides neck protection against mechanical effects and high temperature;
- hard visor coating;
- visor optical class one;
- enlarged forehead guard made of **SUPER Termotrek®** material;
- place for a logo is anticipated on the forehead;
- headgear with adjustable wearing height and head size that reliably retain the face shield on user's head;
- soft changeable sweatband;
- suitable for corrective spectacles and respirator use.

Recommended:

for eye and face protection against bright visible light, UV/IR radiation, high speed particles (medium energy impact) upon low power gas welding and cutting, auxiliary works at arc welding.



Visor marking:

5	Filter scale number
(RZ)	Manufacturer ID
1	Optical class one
B T	Symbol of resistance to high speed particles (medium energy impact 5.9 J V= 120 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids and hot solids
K	Symbol of resistance to fogging
N	Symbol of resistance to surface damaging by fine particles

Model name:	NBT2 SUPER VISION®
Headgear:	RAPID
Item number:	427399
Visor:	PC
Visor dimensions:	240 x 395 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	360 g



Model name:	NBT3 SUPER VISION®
Headgear:	ZEN®
Item number:	437399
Visor material:	PC
Visor dimensions:	240 x 395 mm
Forehead guard material:	SUPER Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	340 g


Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

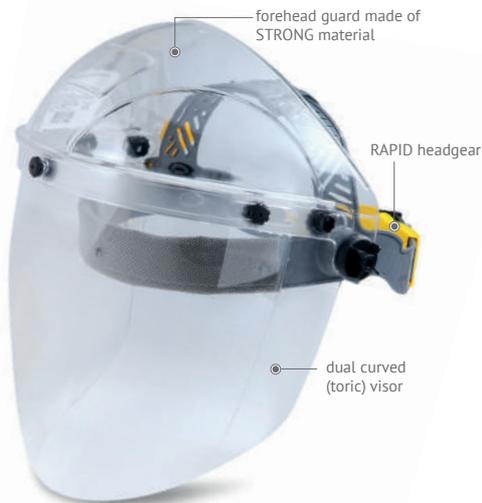
NBT Sfera VISION® protective face shield

Wide field of view!



NEW!

WIDE FIELD OF VIEW!



Features:

- dual curved (toric) PC 2 mm thick visor with rounded bottom part provides enhanced view in all directions;
- visor optical class one ensures undistorted seeing best optics among face shield visors;
- Super generic hard/anti-fog, or StrongGlass high grade hard/anti-fog visor coating;
- optimal ventilation and comfort;
- enlarged forehead guard made of SUPER Termotrek® (heat/impact resistant) or STRONG (impact resistant, transparent) material;
- place for a logo is anticipated on the forehead;
- headgear with adjustable wearing height and head size that reliable retain the face shield on user's head;
- soft changeable sweatband.

Recommended:

- **item numbers 414530, 424530, 434530:** for eye and face protection at metal works with cooling liquids use, works where debris may appear, in chemical labs, painting and works with electric/pneumatic tools;
- **item numbers 415540, 425540, 435540:** for eye and face protection against heat radiation, sparks, metal spray, droplets and splashes of liquids;
- **item numbers 417537, 427537, 437537:** for eye and face protection at works in hot, humid, contaminated environments, in metallurgy, machine building etc.

*NBT2 Sfera VISION® TITAN

Visor marking:

2C-1.2	Scale number
(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to fogging
N	Symbol of resistance to surface damaging by fine particles



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84



Model name:	NBT1 Sfera VISION® TITAN
Headgear:	STANDART
Item number:	414530
Visor:	PC super
Visor dimensions:	210 x 240 mm
Forehead guard material:	STRONG
Working temperature range:	from -50°C to +130°C
Mass:	354 g



Model name:	NBT1 Sfera VISION®
Headgear:	STANDART
Item number:	415540
Visor:	PC
Visor dimensions:	210 x 240 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	348 g



Model name:	NBT1/C Sfera VISION® TERMO TITAN
Headgear:	STANDART
Item number:	417537
Visor:	PC StrongGlass™
Visor dimensions:	210 x 240 mm
Forehead guard material:	Super Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	301 g



Model name:	NBT2 Sfera VISION® TITAN
Headgear:	RAPID
Item number:	424530
Visor:	PC super
Visor dimensions:	210 x 240 mm
Forehead guard material:	STRONG
Working temperature range:	from -50°C to +130°C
Mass:	383 g



Model name:	NBT2 Sfera VISION®
Headgear:	RAPID
Item number:	425540
Visor:	PC
Visor dimensions:	210 x 240 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	379 g



Model name:	NBT2/C Sfera VISION® TERMO TITAN
Headgear:	RAPID
Item number:	427537
Visor:	PC StrongGlass™
Visor dimensions:	210 x 240 mm
Forehead guard material:	Super Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	354 g



Model name:	NBT3 Sfera VISION® TITAN
Headgear:	ZEN®
Item number:	434530
Visor:	PC super
Visor dimensions:	210 x 240 mm
Forehead guard material:	STRONG
Working temperature range:	from -50°C to +130°C
Mass:	369 g



Model name:	NBT3 Sfera VISION®
Headgear:	ZEN®
Item number:	435540
Visor:	PC
Visor dimensions:	210 x 240 mm
Forehead guard material:	Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	357 g



Model name:	NBT3/C Sfera VISION® TERMO TITAN
Headgear:	ZEN®
Item number:	437537
Visor:	PC StrongGlass™
Visor dimensions:	210 x 240 mm
Forehead guard material:	Super Termotrek®
Working temperature range:	from -50°C to +130°C
Mass:	315 g



possible to use
with filtering
half-mask

KBT VISION® TITAN protective face shield, helmet mounted

FOR COMPLEX PROTECTION!

Eye and face protectors



Features:

- 0.75 mm thick PC enlarged detachable visor with rounded bottom part for eye and face protection against high speed particles (medium energy impact);
- 2 mm thick PC enlarged detachable visor with rounded bottom part for eye and face protection against high speed particles (high energy impact);
- elongate visor provides neck protection against mechanical effects and high temperature;
- visor optical class one;
- PARTNER universal helmet adapter made of heat resistant polyamide;
- locking device ensures reliable visor fixation in two positions (up/down);
- four plastic screws with nuts for visor attachment to the adapter bow;
- suitable for use together with earmuffs due special adapters (comes with earmuffs).

Recommended:

- **item number 04330:**
for eye and face protection against hard particles, sparks and droplets of liquids;
- **item numbers 04390, 04391:**
for eye and face protection against hard particles, sparks, heat at works near industrial ovens and droplets of liquids

KBT VISION® TITAN



Model name:	KBT VISION® TITAN
Item number:	04390
Visor:	PC
Visor dimensions:	220 x 385 mm
Working temperature range:	from -50°C to +130°C
Mass:	274 g



Model name:	KBT VISION® TITAN
Item number:	04391
Visor:	PC/SUPER Termotrek®
Visor dimensions:	200 x 385 mm
Working temperature range:	from -50°C to +130°C
Mass:	306 g



Face shield is locking in two positions: working (lowered) and non-working (lifted).



Model name:	KBT VISION® TITAN
Item number:	04330
Visor:	PC
Visor dimensions:	220 x 385 mm
Working temperature range:	from -50°C to +110°C
Mass:	202 g



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

KBT SUPER VISION® protective face shield, helmet mounted

Features:

- PC enlarged detachable non-fogging visor with rounded bottom part for eye and face protection against high speed particles (high energy impact);
- CA enlarged detachable non-fogging visor with rounded bottom part for eye and face protection against high speed particles (medium energy impact);
- elongate visor provides neck protection against mechanical effects and high temperature;
- visor optical class one;
- PARTNER universal helmet adapter made of heat resistant polyamide;
- locking device ensures reliable visor fixation in two positions (up/down);
- four plastic screws with nuts for visor attachment to the adapter bow;
- suitable for use together with earmuffs due special adapters (comes with earmuffs).

Recommended:

for eye and face protection against hard particles, sparks, droplets of some aggressive and non-aggressive liquids in metallurgy, machine building, construction, petroleum industry etc.

NON-FOGGING,
RESISTANT TO CHEMICALS



KBT SUPER VISION®

Model name:	KBT SUPER VISION®
Item number:	04307
Visor:	CA
Visor dimensions:	220 x 385 mm
Working temperature range:	from -50°C to +80°C
Mass:	252 g



Model name:	KBT SUPER VISION®
Item number:	04397
Visor:	PC
Visor dimensions:	240 x 395 mm
Working temperature range:	from -50°C to +130°C
Mass:	282 g



KBT VISION® TERMO protective face shield, helmet mounted

IMPROVED HEAT RESISTANCE!

Eye and face protectors



chin guard

Features:

- PC 3 mm thick enlarged visor with chin guard for eye and face protection against high speed particles (high energy impact);
- elongate visor provides neck protection against mechanical effects and high temperature;
- visor optical class one;
- PARTNER universal helmet adapter made of heat resistant polyamide;
- locking device ensures reliable visor fixation in two positions (up/down);
- suitable for use together with earmuffs due special adapters (comes with earmuffs).

Recommended:

for eye and face protection against heat, hard particles, sparks, molten metal splashes, droplets of some aggressive and non-aggressive liquids in metallurgy upon works near industrial surfaces.

*KBT VISION® TERMO



Model name:	KBT VISION® TERMO
Item number:	04380
Visor:	PC
Visor dimensions:	285 x 381,5 mm
Working temperature range:	from -50°C to +180°C
Mass:	308 g



Model name:	KBT VISION® TERMO
Item number:	04381
Visor:	PC/ SUPER Termotrek®
Visor dimensions:	292,5 x 376,5 mm
Working temperature range:	from -50°C to +180°C
Mass:	306 g

Visor marking:

2C-1.2	Scale number
(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids



KS STAL protective face shield, helmet mounted

IMPACT
RESISTANT

Features:

- mesh visor with rounded bottom part made of fine-meshed net, 0,7 x 0,7 mm cell size for eye and face protection against high speed particles (low energy impact);
- mesh visor with rounded bottom part made of coarse-meshed 2 x 2 mm cell size for eye and face protection against high speed particles (low energy impact);
- elongate visor provides neck protection against mechanical effects and high temperature;
- visor optical class one;
- PARTNER universal helmet adapter made of heat resistant polyamide;
- locking device ensures reliable visor fixation in two positions (up/down);
- suitable for use together with earmuffs due special adapters (comes with earmuffs).

Recommended:

- **item number 04416:**
for eye and face protection in machine building at high speed turning, grinding etc, in agriculture at such works like landscaping, bush trimming and cutting etc, in timber industry at harvesting operation, woodworking, at other works in especially hard and hazardous conditions with high humidity, temperature;
- **item number 04406:**
for eye and face protection in construction, mounting, repair and other works where risk of trauma by debris of stone, concrete, metal exists, in timber industry and woodworking.



KS/L STAL

Model name:	KS/L STAL
Item number:	04416
Visor:	fine-mesh ocular 0,7 x 0,7 mm
Visor dimensions:	235 x 390 mm
Working temperature range:	from -50°C to +130°C
Mass:	306 g



Model name:	KS STAL
Item number:	04406
Visor:	coarse-mesh ocular 2,0 x 2,0 mm
Visor dimensions:	235 x 390 mm
Working temperature range:	from -50°C to +130°C
Mass:	272 g



KBTM VISION® Termo protective face shield, helmet mounted

METALLURGY

Eye and face protectors



Features:

- enlarged PC visor with pure gold reflective coating for advanced protection;
- heat energy attenuation up to 90%;
- temperature beside the visor is not higher than 45°C upon work near hot oven;
- protection against glaring brightness of the molten metal;
- protection against near IR radiation in 800-2500 nm wavelength band;
- eye and face protection against heat, sparks, metal spray in wide temperature range;
- visor optical class one;
- PARTNER universal helmet adapter made of heat resistant polyamide;
- four plastic screws with nuts for visor attachment to the adapter bow;
- locking device ensures reliable visor fixation in two positions (up/down);
- suitable for use together with earmuffs due special adapters (comes with earmuffs);
- suitable for use with corrective spectacles and respirator.

Recommended:

for use in hot environments in metallurgy, machine building at forging, hot pressing and rolling.

We strongly recommend to wipe the visor gently with dry soft clothes because gold coating is not resistant to abrasion.

Model name:	KBTM VISION® TERMO
Item number:	04351
Visor material	gold plated PC
Visor - dimensions:	240 x 395 mm
Working temperature range:	from -20°C to +250°C
Mass:	272 g

Visor marking:

2C-1.2	Scale number
(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84



KBT SUPER VISION® protective face shield helmet mounted

Features:

- scale number 5 PC visor for eye and face protection against bright visible light, UV/IR radiation, high speed particles (medium energy impact);
- enlarged visor with rounded bottom part made of impact resistant clear PC;
- elongate visor provides neck protection against mechanical effects and high temperature;
- hard/anti-fog visor coating;
- visor optical class one;
- PARTNER universal helmet adapter made of heat resistant polyamide;
- four plastic screws with nuts for visor attachment to the adapter bow;
- TORSION locking device ensures reliable visor fixation in two positions (up/down);
- suitable for use together with earmuffs due special adapters (comes with earmuffs).

Recommended:

for eye and face protection against bright visible light, UV/IR radiation, high speed particles (medium energy impact) upon low power gas welding and cutting, auxiliary works at arc welding.

Non-fogging



Visor marking:

5	Scale number
(RZ)	Manufacturer ID
1	Optical class one
BT	Symbol of resistance to high speed particles (medium energy impact 5.9 J V= 120 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to fogging
N	Symbol of resistance to surface damaging by fine particles

Model name:	KBT SUPER VISION®
Item number:	04399
Visor material:	PC
Visor dimensions:	240 x 395 mm
Working temperature range:	from -50°C to +130°C
Mass:	280 g



KBT Sfera VISION® TITAN protective face shield, helmet mounted

Enhanced view, best optics!



Features:

- dual curved (toric) PC 2 mm thick visor with rounded bottom part provides enhanced view in all directions;
- visor optical class one ensures undistorted seeing – best optics among face shield visors;
- Super generic hard/anti-fog, or StrongGlass high grade hard/anti-fog visor coating;
- visor optical class one;
- PARTNER universal helmet adapter made of heat resistant polyamide;
- four plastic screws with nuts for visor attachment to the adapter bow;
- TORSION locking device ensures reliable visor fixation in two positions (up/down);
- suitable for use together with earmuffs due special adapters (comes with earmuffs).

Recommended:

- item number 04530 - for eye and face protection against heat, molten metal splashes and hot solids, non-ionizing radiation.
- item number 04537 - for eye and face protection against heat, molten metal splashes and hot solids, non-ionizing radiation, surface damage by fine particles.

NEW!

ENHANCED VIEW!

ERC



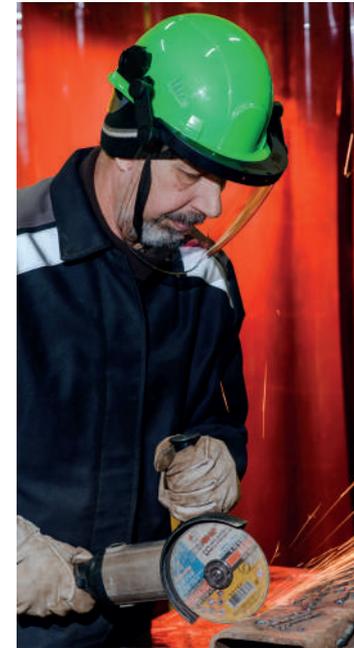
Model name:	KBT Sfera VISION® TITAN
Item number:	04530
Visor material	PC super
Visor dimensions:	210 × 240 mm
Working temperature range:	from -5°C to +130°C
Impact protection:	14,9 J

Model name:	KBT Sfera SUPER VISION®
Item number:	04537
Visor material	PC StrongGlass™
Visor dimensions:	210 × 240 mm
Working temperature range:	from -5°C to +130°C
Impact protection:	14,9 J



Visor marking:

2C-1.2	Scale number
👁️(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to fogging
N	Symbol of resistance to surface damaging by fine particles



KBT VISION® TITAN RX protective face shield, helmet mounted

Eye and face protectors



Features:

- protective face shields are designed for intended use in combined protectors providing protection against mechanical effects such as high speed particles, molten metal splashes adhesion, hot solids, droplets and splashes of liquids, UV radiation;
- maximum functionality;
- face shield lifted in non-working is located close to helmet shell, so wind effect is excluded;
- unique "Slide" double lever locking mechanism provides long-term use;
- adapter parts made of heat resistant material;
- hard coated visor;
- unique **Druzhba** (Russian Druzhba=Friendship) system allows to change face shield and earmuffs easily;
- adapter is resistant to wear and ensures
- reliable locking of the visor in both positions; suitable for use together with earmuffs;
- indispensable at work in restricted areas.

Visor specialties:

- **polycarbonate (PC)** – protection against high speed particles (medium energy impact);
- **impact/heat resistant PC (IHRPC)** - protection against high speed particles (high energy impact);
- **non-fogging antistatic cellulose acetate (CA)** - protection against high speed particles (medium energy impact), semi-polishing effect, resistance to chemicals;
- **non-fogging PC (NFPC)** - protection against high speed particles (high energy impact).

ERC

*KBT VISION® TITAN RX

unique Slide system of face shield locking
no wind effect in non-working position





Recommended:

- **item number 04140** for protection against mechanical effects, chemical factors and non-ionizing radiation;
- **item number 04150** for protection against mechanical effects, heat, adhesion of molten metal splashes and hot solids, chemical factors and non-ionizing radiation;
- **item number 04177** for protection against mechanical effects, fogging, chemical factors and non-ionizing radiation;
- **item number 04157** for protection against mechanical effects, fogging, heat, adhesion of molten metal splashes and hot solids, chemical factors and non-ionizing radiation.

Visor marking:

2C-1.2	Scale number
Ⓡ(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
BT	Symbol of resistance to high speed particles (medium energy impact 5.9 J V= 120 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to fogging
N	Symbol of resistance to surface damaging by fine particles

IMPACT RESISTANT

Model name:	KBT VISION° TITAN RX
Item number:	04140
Visor material	PC
Visor dimensions:	190 × 338,9 mm
Working temperature range:	from -20°C to +90°C
Impact protection:	5,9 J
Mass:	154 g

NON-FOGGING

Model name:	KBT SUPER VISION° RX
Item number:	04177
Visor material	CA
Visor dimensions:	190 × 338,9 mm
Working temperature range:	from -5°C to +80°C
Impact protection:	5,9 J
Mass:	214 g

Model name:	KBT VISION° TITAN RX
Item number:	04150
Visor material	IHR PC
Visor dimensions:	190 × 338,9 mm
Working temperature range:	from -20°C to +130°C
Impact protection:	14,9 J
Mass:	230 g

Model name:	KBT SUPER VISION° RX
Item number:	04157
Visor material	NFPC
Visor dimensions:	190 × 338,9 mm
Working temperature range:	from -50°C to +130°C
Impact protection:	14,9 J
Mass:	230 g

KBT Sfera VISION® TITAN RX protective face shield helmet mounted

NEW!

ENHANCED VIEW!



Enhanced view, best optics!



adapter for helmet mounting

dual curved (toric) visor

Features:

- protective face shields are designed for intended use in combined protectors providing protection against mechanical effects such as high speed particles, molten metal splashes, adhesion, hot solids, droplets and splashes of liquids, UV radiation;
- maximum functionality;
- **super** generic hard/anti-fog, or **StrongGlass™** high grade hard/anti-fog visor coating;
- face shield lifted in non-working is located close to helmet shell, so wind effect is excluded;
- unique "Slide" lever locking device provides long-term use;
- adapter parts made of heat resistant material;
- hard coated visor;
- unique **Druzhba** (Russian Druzhba = Friendship) system allows to change face shield and earmuffs easily;
- adapter is resistant to wear and ensures reliable locking of the visor in both positions;
- suitable for use together with earmuffs;
- indispensable at work in restricted areas.

Visor specialties:

- polycarbonate 2 mm thick visor with generic hard/anti-fog coating (**PC super**) – protection against high speed particles (high energy impact) and fogging
- polycarbonate 2 mm thick visor with high grade hard/anti-fog coating (**PC StrongGlass™**) – enhanced protection against high speed particles (high energy impact) and fogging.

Recommended:

- **item number 04630** for protection against mechanical effects, chemical factors, fogging and non-ionizing radiation;
- **item number 04637** for protection against mechanical effects, heat, adhesion of molten metal splashes and hot solids, surface damaging by fine particles, chemical factors and non-ionizing radiation.

KBT Sfera VISION® TITAN RX



Model name:	KBT Sfera VISION® TITAN RX
Item number:	04630
Visor material	PC super
Visor dimensions:	210 × 210 mm
Working temperature range:	from -20°C to +130°C
Impact protection:	14,9 J

Model name:	KBT Sfera SUPER VISION® RX
Item number:	04637
Visor material	PC StrongGlass™
Visor dimensions:	210 × 210 mm
Working temperature range:	from -20°C to +130°C
Impact protection:	14,9 J

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

KBT STAL RX protective face shield helmet mounted

Features:

- **KBT Stal Profi RX** - visor made of steel fine-meshed net (0.7 x 0.7 mm cell size) provides protection against high speed particles (low energy impact $V = 45$ m/s);
- **KBT Stal Profi Expert** - visor made of steel coarse-meshed net (2 x 2 mm cell size) provides protection against high speed particles (low energy impact $V = 45$ m/s);
- visor offers heat reflective effect;
- double lever locking device provides reliable long-term use;
- unique **Druzhba** (Russian Druzhba = Friendship) system allows to change face shield and earmuffs easily;
- adapter is resistant to wear and ensures reliable locking of the visor in both positions;
- suitable for use together with earmuffs.



Model name:	KBT STAL Profi RX
Item number:	04436
Visor:	fine-mesh ocular
Visor dimensions:	235 x 390 mm
Working temperature range:	from -50°C to +130°C
Mass:	207 g



Model name:	KBT STAL Expert RX
Item number:	04426
Visor:	coarse-mesh ocular
Visor dimensions:	235 x 390 mm
Working temperature range:	from -50°C to +130°C
Mass:	197 g

Recommended:

■ item number 04436:

for eye and face protection in machine building at high speed turning, grinding etc, in agriculture at such works like landscaping, bush trimming and cutting etc, in timber industry at harvesting operation, woodworking, at other works in especially hard and hazardous conditions with high humidity, temperature;

■ item number 04426:

for eye and face protection in construction, mounting, repair and other works where risk of trauma by debris of stone, concrete, metal exists, in timber industry and woodworking.

NEW!

IMPACT
RESISTANT

adapter
for helmet
mounting

KBT STAL Expert RX



double lever locking device
for reliable long-term use



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Protective face shields, helmet mounted **KBT VISION® ENERGO**

Protection against electric arc

Electric arc flash that arises in power electric circuits is characterized by following factors, harmful for a human health:

- debris, flying away with a high speed;
- copper vapors whose volume is 60 000 times bigger than metal volume in its solid state;
- air high temperature – more than 200°C at 1 m distance;
- surge of overpressure up to 1 kgf/cm2 following by 140 dB sound pressure, intensive radiation in UV, visible and IR bands;
- instantaneous heat energy release.

To ensure composite eye, face and head protection use of protective shields and heat resistant safety helmets is necessary, These PPE protects the user against heat, that causes burns, hard particles flying away with high speed, metal spray and vapors and optical radiation of the arc.

Our set of PPE for arc flash protection comprising of safety helmet and protective face shield is recommended for use in energetic industry and other organizations where necessity of electrical mounting

works carrying out exist; they are intended for protection of a user against electric arc flash that may arise during operative switching on energized electric equipment both indoor and outdoor.

KBT VISION® ENERGO protective face shields were tested for resistance to electric arc in High Current Lab (Kinectrics Inc., Canada) and in Germany in accordance with **ASTM F2178-08** test method (see fig, 1 – 4) and GS-ET29. Favori®T Termo, Vision® Termo, BIOT® safety helmets passed the electric insulation tests according to EN 50365 standard and got the EC type examination Certificates.

Tests have been performed for determination of the arc thermal performance value (ATPV) that characterizes arc rating of face protective products. The face shields to be tested were mounted onto 3 headforms located at 30 cm distance from the arc gap and equipped four calorimeters each. The distance between electrodes was also 30 cm and its axis is parallel to the headforms axes.

Test parameters: arc current – 8000 A, source voltage – 400V, arc duration – 67 ms, arc gap – 30 cm.

Test results. Face shields with two different visors (shaded and clear) were tested.

Filter visor: ATPV = 11.2 cal/cm2 , heat attenuation factor (HAF) = 86%.

Clear visor: ATPV = 1.9 cal/cm2 , HAF = 40%.

Coming back to listed above harmful factors we clearly can see a necessity of composite protection use, where eye and face protection is the most important issue. This protection should be realized by use of arc flash shields that protects, first of all, user's eyes and face.

When risk of electric arc flash exists it is necessary to choose PPE carefully, to check availability of the Certificates and correspondent product marking presence.

Test of KBT VISION® ENERGO (item number 04290) PPE set according to ASTM F2178-08 method.



fig. 1



fig. 2



fig. 3



fig. 4

KBT VISION® ENERGO Protective face shields, helmet mounted

STANDARD
PROTECTION!

Features:

- non-fogging visor made of transparent material (see item number) with hard coating;
- flame retardant edge trim made of insulating material for higher visor rigidity and prevention of its heat deformation;
- protection against heat, optical radiation and other harmful factors of the arc flash;
- possibility of safety helmet mounting by means of special helmet adapter;
- visor optical class one.

Always wear the safety helmet with chin strap fastened and face shield in working position.



Visor marking:

2C-1.2	Scale number
👁️(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
BT	Symbol of resistance to high speed particles (medium energy impact 5.9 J V= 120 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
8	Symbol of resistance to short circuit electric arc
1	Class of protection (4 kA test current)
0	Visor class by transmittance (>75%)
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to fogging
N	symbol of resistance to surface damaging by fine particles

Model name:	KBT VISION® ENERGO
Item number:	04207
Visor:	CA clear
Visor dimensions:	220 × 385 mm
Working temperature range:	from -20°C to +110°C
Impact protection:	5,9 J
Mass:	284 g

Model name:	KBT VISION® ENERGO
Item number:	04197
Visor:	PC clear
Visor dimensions:	240 × 395 mm
Working temperature range:	from -50°C to +130°C
Impact protection:	14,9 J
Mass:	312 g



Protective face shields, helmet mounted
KBT VISION® ENERGO



Features:

- non-fogging visor made of transparent material PC with hard/ant-fog coating;
- flame retardant edge trim made of insulating material for higher visor rigidity and prevention of its heat deformation;
- protection against heat, optical radiation and other harmful factors of the arc flash;
- possibility of safety helmet mounting by means of special helmet adapter;
- visor optical class one.

KBT Sfera VISION® ENERGO

- dual curved (toric) visor;
- optimum vision in any direction;
- maximum functionality;
- undistorted seeing.

Visor marking:

2C-1.2	Scale number of UV filter with good color recognition
(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
8	Symbol of resistance to short circuit electric arc
1	Class of protection (4 kA test current)
0	Visor class by transmittance (>75%)
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to fogging
N	Symbol of resistance to surface damaging by fine particles



Model name:	KBT VISION® ENERGO
Item number:	04290
Visor:	PC
Visor dimensions:	245 × 510 mm
Working temperature range:	from -50°C to +130°C
Impact protection:	14,9 J
Mass:	344 g

NEW!

ENHANCED PROTECTION!

Protective face shields, helmet mounted

KBT Sfera VISION® ENERGO

Enhanced view, best optics!



Model name:	KBT VISION® ENERGO
Item number:	04737
Visor:	PC
Visor dimensions:	210 × 240 mm
Working temperature range:	from -50°C to +130°C
Impact protection:	14,9 J
Mass:	260 g

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

KBT VISION® ENERGO Protective face shields, helmet mounted

NO ANALOGS
ON RUSSIAN MARKET!

Features:

- highest level of protection according GS-ET29: class 2;
- non-fogging PC visor 2mm thick with hard coating;
- flame retardant edge trim made of insulating material for higher visor rigidity and prevention of its heat deformation;
- protection against heat, optical radiation and other harmful factors of the arc flash;
- possibility of safety helmet mounting by means of special helmet adapter;
- visor optical class one.

Recommended:

for use together with FAVORI®T GEFEST LUX, FAVORI®T GEFEST ENERGO liners - necessary for complex protection of electric personnel.

Remember!

Protective face shield use together with a liner considerably enhances protection of the KBT ENERGO PPE set!

It is important not only to choose quality and reliable PPE but necessary to use it constantly and correctly!



maximum
eye and face
protection



Visor marking:

1,7	Scale number
(RZ)	Manufacturer ID
1	Optical class one
BT	Symbol of resistance to high speed particles (medium energy impact 5,9 J V= 120 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
8	Symbol of resistance to short circuit electric arc
2	Class of protection (7 kA test current)
2	Visor class by transmittance (<50%)
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to fogging
N	Symbol of resistance to surface damaging by fine particles

Model name:	KBT VISION® ENERGO
Item number:	04235
Visor:	PC, 1,7 filter scale number
Visor dimensions:	245 × 510 mm
Working temperature range:	from -50°C to +130°C
Impact protection:	5,9 J
Mass:	346 g



Protective face shields, helmet mounted KBT VISION® ENERGO RX

Recommended to electricians and for work at height

**INNOVATION
ON YOUR SERVICE!**

unique Slide system of face shield locking
no wind effect in non-working position



Features:

- protective face shields designed for intended use in combined protectors providing protection against mechanical effects such as high speed particles, molten metal splashes adhesion, hot solids, droplets and splashes of liquids, UV radiation;
- non-fogging clear PC visor with hard coating;
- maximum functionality;
- face shield lifted in non-working is located close to helmet shell, so wind effect is excluded;
- unique "Slide" double lever locking mechanism provides long-term use;
- adapter parts made of heat resistant material;
- hard coated visor;
- unique **Druzhba** (Russian Druzhba = Friendship) system allows to change face shield and earmuffs easily;
- adapter is resistant to wear and ensures reliable locking of the visor in both positions;
- suitable for use together with earmuffs;
- indispensable at work in restricted areas and at height.

Visor features depending on its material:

- **cellulose acetate** 1.6 mm thick visor is antistatic, resistant to fogging, high speed particles (medium energy impact), chemicals;
- **polycarbonate** 2 mm thick visor is resistant to high temperature and high speed particles (high energy impact).



adapters for earmuffs attachment

Adapter for helmet mounting

Model name:	KBT VISION® ENERGO RX
Item number:	04277
Visor:	CA, clear
Visor dimensions:	190 × 338,9 mm
Working temperature range:	from -5°C to +110°C
Impact protection:	5,9 J
Mass:	246 g

Model name:	KBT VISION® ENERGO RX
Item number:	04257
Visor:	PC, clear
Visor dimensions:	190 × 338,9 mm
Working temperature range:	from -50°C to +130°C
Impact protection:	14,9 J
Mass:	262g

Recommended:

item number 04277 - for protection against electric arc risks, heat, molten metal splashes and hot solids, fogging.

Recommended:

item number 04257 - for enhanced protection against electric arc risks, heat, molten metal splashes and hot solids, fogging.



KBT Sfera VISION® ENERGO RX Protective face shields, helmet mounted

Специально для энергетиков и работ на высоте

Features:

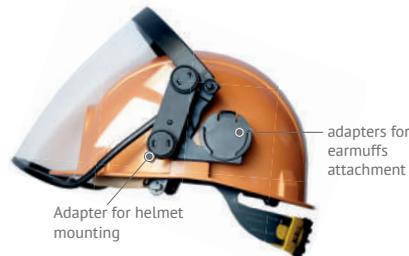
- protective face shields designed for intended use in combined protectors providing protection against mechanical effects such as high speed particles, molten metal splashes adhesion, hot solids, droplets and splashes of liquids, UV radiation;
- maximum functionality;
- Super generic hard/anti-fog, or StrongGlass high grade hard/anti-fog visor coating;
- face shield lifted in non-working position is located close to helmet shell, so wind effect is excluded;
- unique "Slide" lever locking mechanism provides long-term use;
- adapter parts made of heat resistant material;
- hard coated visor;
- unique **Druzhba** (Russian Druzhba = Friendship) system allows to change face shield and earmuffs easily;
- adapter is resistant to wear and ensures reliable locking of the visor in both positions;
- suitable for use together with earmuffs;
- indispensable at work in restricted areas.

Recommended:

for enhanced protection against electric arc risks, heat, molten metal splashes and hot solids.

Visor marking:

2C-1.2	Scale number of UV filter with good color recognition
(RZ)	Manufacturer ID
1	Optical class one
AT	Symbol of resistance to high speed particles (high energy impact 14.9 J V= 190 m/s) at extremes of temperature
3	Symbol of protection against droplets of liquids
8	Symbol of resistance to short circuit electric arc
9	Symbol of resistance to molten metal splashes and hot solids
K	Symbol of resistance to fogging
N	Symbol of resistance to surface damaging by fine particles



Enhanced view, best optics!



Model name:	KBT VISION® ENERGO RX
Item number:	04837
Visor:	PC, clear
Visor dimensions:	210 × 210 mm
Working temperature range:	from -50°C to +130°C
Impact protection:	14,9 J
Mass:	280 g

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

SOMZ-1 JAGUAR earmuffs

TOP SELLER!

Hearing protectors



60100
mass: 139 g

Features:

- selective noise attenuation: earmuffs protects against 107 dB noise offering a possibility to detect speech and alarm signals;
- dielectric product - no metal parts;
- inserts made of specially selected black PU foam provides good attenuation, easily removes for cleaning;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- small mass and comfortable headband provide user's comfort at over shift wearing;
- easy-to-see in twilight time, insufficient illumination etc;
- adjustable cold-resistant headband provides uniform cushion pressure and good adherence to a head;

- hinge cups mount to the headband;
- indelible pad printed marking;
- special technology of cup welding with cushion;
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Use:

hearing protection against sound pressure level higher than 80 dB in all branches of industry including machine building, metallurgy, oil and gas extraction and processing, construction etc.

Our top seller became even better!



SOMZ-1 JAGUAR *premium* earmuffs

NEW!

27^{dB}
SNR

Features:

- headband with cushion for better comfort;
- dielectric product - no metal parts;
- inserts made of specially selected black PU foam provides good attenuation, easily removes for cleaning;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- small mass and comfortable headband provide user's comfort at over shift wearing;
- easy-to-see in twilight time, insufficient illumination etc;
- adjustable cold-resistant headband provides uniform cushion pressure and good adherence to a head;

- hinge cups mount to the headband;
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Use:

hearing protection against sound pressure level higher than 80 dB in all branches of industry including machine building, metallurgy, oil and gas extraction and processing, construction etc.



headband with
cushion

60100P

Mass: 140 g



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

SOMZ-3 PUMA earmuffs

UNIVERSAL!

Hearing protectors



60300
mass:145 g



Adjustable handstrap allows to use earmuffs with protective face shield and safety helmet

Features:

- universal earmuffs – possible to wear over- and behind the head;
- selective noise attenuation: earmuffs protects against 107 dB noise offering a possibility to detect speech and alarm signals;
- dielectric product - no metal parts;
- inserts made of specially selected black PU foam provides good attenuation, easily removes for cleaning;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- small mass and comfortable headband provide user's comfort at over shift wearing;
- easy-to-see in twilight time, insufficient illumination etc;
- adjustable cold-resistant headband provides uniform cushion pressure and good adherence to a head;
- hinge cups mount to the headband;
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Use:

hearing protection against sound pressure level higher than 80 dB in all branches of industry including machine building, metallurgy, oil and gas extraction and processing, construction etc.



IMPROVED PRO-
TECTION!**SOMZ-45 PILOT earmuffs****Features:**

- selective noise attenuation: earmuffs protects against 113 dB noise offering a possibility to detect speech and alarm signals;
- dielectric product - no metal parts;
- double inserts made of specially selected black PU foam and felt provides enhanced sound attenuation, easily removes for cleaning;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- small mass and comfortable headband provide user's comfort at over shift wearing;
- easy-to-see in twilight time, insufficient illumination etc;
- adjustable cold-resistant headband provides uniform cushion pressure and good adherence to a head;
- hinge cups mount to the headband in two points;
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Use:

ideal for hearing protection of employees of engine testing rooms, airport services, machinery repairmen, work with chipping hammer, perforator etc.



adjustable headband with cushion

33dB
SNR60450
mass: 250 g

EAC



SOMZ-15 Titan earmuffs

60150



head size adjustment

mass: 136 g

Features:

- selective noise attenuation: earmuffs protects against 104 dB noise offering a possibility to detect speech and alarm signals;
- dielectric product - no metal parts;
- inserts made of specially selected black PU foam provides enhanced sound attenuation, easily removes for cleaning;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- small mass and comfortable headband provide user's comfort at over shift wearing;

60154



- With orange cups – protection against 104 dB noise, does not offer over-protection and feeling of isolation.

- adjustable cold-resistant headband provides uniform cushion pressure and good adherence to a head;
- hinge cups mount to the headband in two points;
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Specific features:

- innovative modern design;
- 8 steps of head size adjustment;
- compact folding for usable storing.



SOMZ-9 Stalnoy GEPARD earmuffs**Features:**

- innovative model of modern design;
- selective noise attenuation: earmuffs protects against 107 dB noise offering a possibility to detect speech and alarm signals;
- dielectric product - no metal parts;
- inserts made of specially selected black PU foam provides good attenuation, easily removes for cleaning;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- small mass and comfortable headband provide user's comfort at over shift wearing;
- adjustable cold-resistant headband provides uniform cushion pressure and good adherence to a head;
- hinge cups mount to the headband in two points
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Use:

hearing protection against sound pressure level higher than 80 dB in all branches of industry including machine building, metallurgy, oil and gas extraction and processing, construction etc.



SOMZ-93 Bely Tigr earmuffs

PREMIUM CLASS!

Hearing protectors



hinge joint for good adherence

60934
mass: 295 g



Features:

- premium class stylish model, high level of sound attenuation;
- earmuffs protects against 112 dB noise;
- dielectric product - no metal parts;
- deep cups made of rigid ABS plastic resistant to heat and UV radiation;
- comfortable steel headband with soft sheathing provide user's comfort at over shift wearing;
- adjustable cold-resistant headband provides uniform cushion pressure and good adherence to a head;
- hinge cups mount to the headband in two points;
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Use:

hearing protection against higher sound pressure level in all branches of industry including machine building, metallurgy, oil and gas extraction and processing, construction etc.

SOMZ-93 Stalnoy Bars earmuffs

Features:

- universal premium class earmuffs – possible to wear over- and behind the head;
- earmuffs protects against 110 dB noise;
- dielectric product - no metal parts;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- comfortable adjustable headband provide user's comfort at over shift wearing;
- suitable for wearing with safety helmet, protective face shield;
- increased space between insert and pinna prevents moisture accumulation inside;
- good adherence to head due steel headstrap;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Use:

hearing protection against higher sound pressure level in all branches of industry including machine building, metallurgy, oil and gas extraction and processing, construction etc.

**PREMIUM CLASS!****30dB
SNR****60631**

mass: 200 g



SOMZ-8 Driver Active earmuffs

ACTIVE!

Hearing protectors



60800

Power source 2 AA 1.5 V batteries

mass: 308 g



Features:

- innovative product - electronic earmuffs that offers free communication and environment control;
- no feeling of isolation;
- built-in electronics comprising of microphone, threshold circuit, amplifier and miniature loudspeaker;
- reinforced two-points cup attachment to the headband
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing;
- steel headband with soft sheathing offers user's comfort at prolong wearing and cold operation.

Operating principle.

When noise level does not exceed 80 db, sounds from outside are audible well because amplifier is on. When sound level exceed 80 dB, the threshold device switch the amplifier off and earmuff works like conventional passive hearing protector providing 30 dB noise attenuation.

Use:

hearing protection in metallurgy, machine building, oil and gas extraction and drilling, railroad transport, airports etc.



SOMZ-7 RADIO earmuffs

FM RADIO INSIDE!

31dB
SNR

Features:

- innovative model specially designed for workers who fulfill monotone work in noisy environment;
- steel headband with soft sheathing;
- allows to listen to Hi-Fi radio broadcast in FM/AM band or programs from external source such as MP3 player at simultaneous noise reduction;
- built-in receiver provides high quality radio reception in AM (520 – 1620 kHz) and FM (87.5-108 MHz) band;
- discrete frequency setting in 9 kHz step in AM band and 100 kHz step in FM band;
- phase-locked loop system for steady radio reception;
- memory (8 AM stations + 8 FM stations);
- LCD display represents battery status and running time in hours/minutes when radio is off;
- LCD represents the band chosen, battery status, frequency value, frequency units (kHz/MHz) and station place number in the memory when radio is on;
- time and frequency setting by ▼ /▲ buttons;
- band change by **BAND** button;
- station memorizing or time setting in **MENU** mode;
- volume control/radio on-off knob;
- input for external source connection by cable with 3.5 mm jack.

Use:

optimally suitable for workers of belt-line production, turbine-floor operators etc.



60700



SOMZ-5 SHTURM earmuffs, helmet mounted

adapters for helmet mounting

27^{dB}
SNR

Features:

- selective noise attenuation: earmuffs protects against 107 dB noise offering a possibility to detect speech and alarm signals;
- medium attenuation value sufficient for use in majority of branches of industry;
- dielectric product - no metal parts;
- inserts made of specially selected black PU foam provides good attenuation, easily removes for cleaning;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- adjustable cup holder arms provides uniform cushion pressure and good adherence to a head;
- hinge cups mount to the cup holders;
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.



60105
mass: 198 g



hinge mount provides uniform adherence to the head



TOP SELLER!

Use:

hearing protection against sound pressure level higher than 80 dB in all branches of industry including machine building, metallurgy, oil and gas extraction and processing, construction etc.



SOMZ-35 Champion earmuffs, helmet mounted**ENHANCED
PROTECTION!****32 dB
SNR**

- Features:**
- selective noise attenuation: earmuffs protects against 104 dB noise offering a possibility to detect speech and alarm signals;
 - dielectric product - no metal parts;
 - increased size cups made of rigid ABS plastic resistant to heat and UV radiation;
 - adjustable cup holder arms provides uniform cushion pressure and good adherence to a head;
 - hinge cups mount to the headband in two points;
 - special technology of cup welding with cushion;
 - increased space between insert and pinna prevents moisture accumulation inside;
 - soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Use:
hearing protection in metallurgy, machine building, oil and gas extraction and drilling, railroad transport, airports etc.



60350
mass: 254 g

**Personal Protective Equipment**

Sales department tel: +7 34275 33 777; 8 800 707 41 84

SOMZ-25 Yamal earmuffs, helmet mounted

EXQUISITE DESIGN!

Hearing protectors



26dB SNR

60250
mass: 156 g



Features:

- innovative model of modern design;
- selective noise attenuation: earmuffs protects against 106 dB noise offering a possibility to detect speech and alarm signals;
- dielectric product - no metal parts;
- inserts made of specially selected black PU foam provides good attenuation, easily removes for cleaning;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- adjustable cup holder arms provide uniform cushion pressure and good adherence to a head;
- hinge cups mount to the cup holder arm in two points;
- increased space between insert and pinna prevents moisture accumulation inside;

- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing;
- adapters for helmet mounting.

Specific features:

- 8 steps of head size adjustment;
- sound attenuation value suitable for majority of applications.

Use:

hearing protection at moderate noise level in metallurgy, machine building, oil and gas extraction and drilling, railroad transport, airports etc.



SOMZ-25 Yamal earmuffs, helmet mounted

Features:

- innovative model of modern design;
- selective noise attenuation: earmuffs protects against 106 dB noise offering a possibility to detect speech and alarm signals;
- dielectric product - no metal parts;
- inserts made of specially selected black PU foam provides good attenuation, easily removes for cleaning;
- cups made of rigid ABS plastic resistant to heat and UV radiation;
- adjustable cup holder arms provide uniform cushion pressure and good adherence to a head;
- hinge cups mount to the cup holder arm in two points;
- increased space between insert and pinna prevents moisture accumulation inside;

- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing;
- adapters for helmet mounting.

Specific features:

- 8 steps of head size adjustment;
- sound attenuation value suitable for majority of applications.

Use:

hearing protection at moderate noise level in metallurgy, machine building, oil and gas extraction and drilling, railroad transport, airports etc.



60254
mass: 156 g



SOMZ-65 Stalnoy Lev earmuffs, helmet mounted

NEW!

Hearing protectors



Features:

- innovative model of modern design;
- selective noise attenuation: earmuffs protects against 107 dB noise offering a possibility to detect speech and alarm signals;
- dielectric product - no metal parts;
- inserts made of specially selected black PU foam provides good attenuation, easily removes for cleaning;
- stable head force due flat springs in adapters;
- adjustable cup holder arms provides uniform cushion pressure and good adherence to a head;
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Use:

hearing protection at moderate noise level in metallurgy, machine building, oil and gas extraction and drilling, railroad transport, airports etc.

60650
mass: 189 g



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

SOMZ-8 Driver Active earmuffs, helmet mounted

Features:

- innovative product - electronic earmuffs that offers free communication and environment control;
- no feeling of isolation;
- built-in electronics comprising of microphone, threshold circuit, amplifier and miniature loudspeaker;
- reinforced two-points cup attachment to the cup holder arm;
- adjustable cup holder arms provide good adherence to the head;
- increased space between insert and pinna prevents moisture accumulation inside;
- soft wide cushions provide optimum head force without user discomfort and fatigue during prolong wearing.

Operating principle.

When noise level does not exceed 80 db, sounds from outside are audible well because amplifier is on. When sound level exceed 80 dB, the threshold device switch the amplifier off and earmuff works like conventional passive hearing protector providing 28 dB noise attenuation.

Use:

hearing protection in metallurgy, machine building, oil and gas extraction and drilling, railroad transport, airports etc.



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

PPE set assembly diagram



All ROSOMZ® PPE are completed with following adapters:

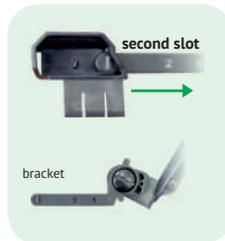


basic (item number 00985)
for KBT face shields mounting onto safety helmet



basic (item number 00685)
for earmuffs mounting onto safety helmet

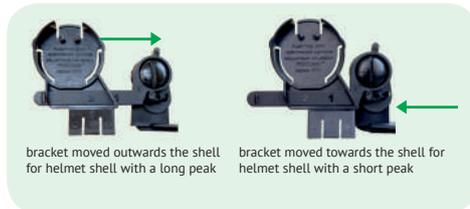
1. Remove adapter from the face shield bracket.
2. Push up the bracket hook and remove the bracket from the first slot.
3. Remove the bracket from the second slot.
4. Insert the face shield bracket into the earmuff adapter taking in mind that adapters are different (right marked R and left marked L). Insert right and left adapters into inner slots of corresponding face shield adapters.



5. Mount earmuffs/face shield assembly onto the safety helmet: insert universal adapter counterpart into the helmet shell slot until click.



Depending on helmet peak size move universal adapter bracket towards or outwards helmet shell:



6. Check assembly correctness. Earmuffs shall be tightly pressed to the head in working position, taken off and pressed to the shell in non-working position. No gap should be between the helmet peak and the face shield adapter.



For use without earmuffs:

push the hook and pull the earmuff out



To remove face shield: remove face shield/earmuffs assembly moving it outwards as shown then follow clauses 2-3



ROSOMZ® safety helmets

Intended use:

Safety helmets are intended for prevention or reduction of hazardous and harmful effects to the human head, namely: mechanical actions, droplets of water and aggressive liquids, electric shock upon contact with live parts in temperature range from -50°C to 50°C (up to 150°C for very high temperature). All ROSOMZ safety helmets are certified for protection against electric shock at contact with live parts under voltage of 1000 V AC or 1500 V DC.

Field of use:

Head protection in metallurgy, oil and gas extraction and processing, construction, mining, where risk of a head damage is present.

Features:

Unbeaten advantages of ROSOMZ safety helmets are following:

- ① head size adjustment by means of RAPID rack-and-pinion mechanism;
- ② safety color of RAPID mechanism case;
- ③ optimal length of anti-concussion tapes that offers effective shock absorption;
- ④ headband with hooks for neck shade attachment;
- ⑤ unique vent holes in frontal part of the headband;
- ⑥ changeable sweatband;
- ⑦ ⑧ five wearing height adjustment (2 step in frontal part, 3 step in parietal part);
- ⑨ two- or four-point chin strap attachment.



Marking on the peak:

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Market circulation mark (compliance to requirements of the normative documents of the state-members of Custom Union, European Community and Ukraine) 2. Applicable standard, Technical Regulation of the Customs Union, European standard designation. 3. Low and high work temperature. 4. Protective properties:
LD – resistance to lateral deformation;
MM- resistance to molten metal splashes. 5. Model name. | <ol style="list-style-type: none"> 6. Manufacturer identification. 7. Shell material: PA – polyamide (Super Termotrek®)
PP – polypropylene (Termotrek®) 8. Date of manufacturing. 9. Symbol of compliance with EN 50365:2002 standard. 10. Helmet class 0 with nominal voltage 1000 V AC according EN 50365 standard, batch number. |
|---|--|



ROSOMZ® safety helmets



We apply logo onto safety helmets using pad printing process.

Large choice of pure colors.

Pad printing advantages:

- ✓ high durability of the image;
- ✓ high resolution;
- ✓ resistance to environments;
- ✓ high resistance to chemicals;
- ✓ high resistance to mechanical action;
- ✓ low cost at medium and high yield;
- ✓ no limitation of quantity



Pad printing is a modern technology of logo application based on paint transfer to the subject by means of elastic silicone pad capable to coincide with subject surface curvature. The modern pad printed equipment is launched and run at our plant.



HARNESS

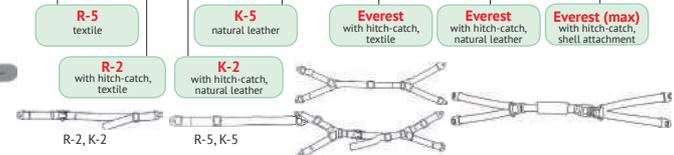
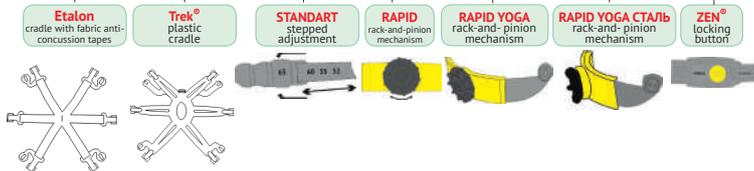
CHIN STRAPS

CRADLE

**HEADBAND
SIZE ADJUSTMENT**

TWO-POINTS ATTACHMENT

FOUR-POINTS ATTACHMENT



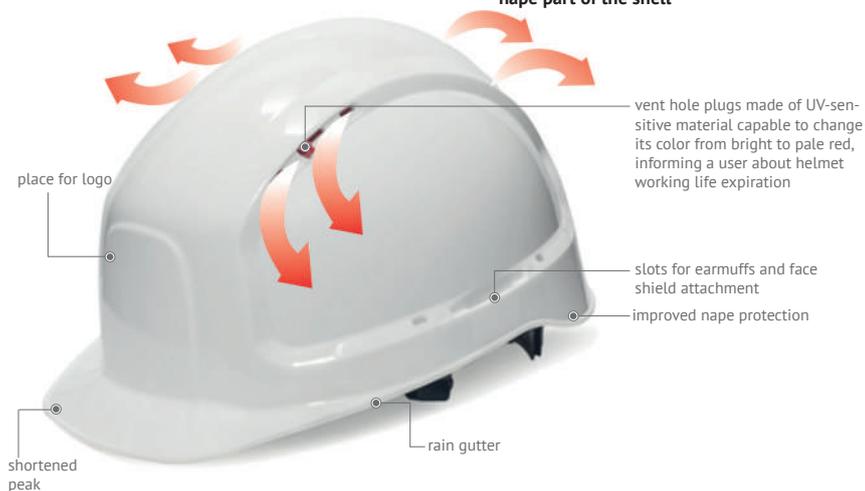
Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

RFI-7 TiTAN safety helmet

FIRST!
Additional ventilation of the nape part of the shell

STYLISH



Features:

- improved nape protection;
- shell made of **Termotrek®** material;
- increased interior space;
- detachable goggles holder;
- improved ventilation;
- movable vent hole pugs provide shell ventilation control and are aging indicators as well;
- 6 steps of wearing height adjustment;
- shell mass **245 g**;
- slots for earmuffs and face shield attachment;
- working temperature range from -50°C to +50°C.

Use:

Head protection against small falling objects, droplets of liquids, molten metal splashes, contact with live parts under voltage 1000 V AC/1500 V DC both indoor and outdoor in -50°C ...50°C temperature range.

Recommended for engineering manpower, management personnel and qualified workers.



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84



RAPID headgear with rack-and-pinion mechanism provides smooth and precise head size adjustment, reliable retains a helmet on the head. **Head size adjustment** rang from 51 to 65 cm, 2,5 mm step.



Two-points attachment fabric chin strap with hitch-catch comes together with helmet.

The product approved for

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50° C** to **+50° C**;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals.



Shell color	STANDART	RAPID	ZEN®
● orange	71514	71714	71314
● yellow	71515	71715	71315
● red	71516	71716	71316
○ white	71517	71717	71317
● blue	71518	72718	71318
● green	71519	71719	71319
● black	71520	71720	71320

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

RFI-3 BIOT safety helmet



Features:

- shell made of **Termotrek®** material;
- **Etalon** harness with **eight-point attachment to the shell**;
- increased interior space;
- R-5 textile chin strap;
- improved ventilation;
- movable vent hole pugs provide shell ventilation control and are aging indicators as well;
- 6 steps of wearing height adjustment;
- shell mass **226 g**;
- slots for earmuffs and face shield attachment;
- working temperature range from -50°C to 50°C.

The product approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50° C to 50° C**;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals.

Use:

Head protection against small falling objects, droplets of liquids, molten metal splashes, contact with live parts under voltage 1000 V AC/1500 V DC both indoor and outdoor in -50°C ...50°C temperature range.

LIGHTWEIGHT!



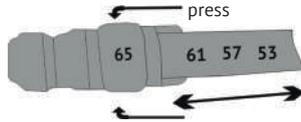
EN 12413 CE



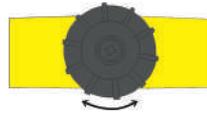
Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

RFI-3 Biot safety helmet



STANDART headgear with stepped head size adjustment from 53 to 65 cm, step 4 mm.



RAPID – headgear with rack-and-pinion mechanism with smooth head size adjustment from 51 to 65 cm by means of the knob rotation.



ZEN® headgear with locking button and stepped head size adjustment from 53.5 to 64.5 cm, step 3 mm.



R-5 textile two-point attachment chin strap (included).



EVEREST textile four-point attachment chin strap (option, item number 00682).

Shell color	STANDART	RAPID	ZEN®
gold	72512	72712	72312
silver	72513	72713	72313
orange	72514	72714	72314
yellow	72515	72715	72315
red	72516	72716	72316
white	72517	72717	72317
blue	72518	72718	72318
green	72519	72719	72319
black	72520	72720	72320

ROSOMZ® recommends:

- **EVEREST** fabric four-point attachment chin strap, prevents helmet slippage.
- **O15 Hammer ACTIVE plus** for eye protection against hard particles.

Nape strap size adjustment by one press on locking button of ZEN® headgear; anatomic shape of the headband reduces pressure on head.



O15 Hammer ACTIVE plus – safety spectacles attachable to the safety helmet.

SOMZ-55 *Favori T* safety helmet

TOP SELLER!

Head protectors



two-points chin strap attachment to the shell is possible



Features:

- shell made of **TermotreK®** material;
- Etalon harness with six-point attachment;
- textile chin strap;
- vent holes with shutters for ventilation control;
- 6 steps of wearing height adjustment;
- shell mass **240 g**;
- slots for earmuffs and face shield attachment;
- working temperature range from **-50°C to 50°C**.

The product approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50° C to +50° C**;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals.

Use:

Head protection against small falling objects, droplets of liquids, molten metal splashes, contact with live parts under voltage 1000 V AC/1500 V DC both indoor and outdoor in -50°C ...50°C temperature range.



Каска защитная COM3-55 *Favori*T ZEN®



STANTART headgear with stepped head size adjustment from 53 to 65 cm, step 4 mm.



RAPID headgear with rack-and-pinion mechanism with smooth head size adjustment from 51 to 65 cm by means of the knob rotation.



ZEN® headgear with locking button and stepped head size adjustment from 53.5 to 64.5 cm, step 3 mm.



R-5 textile two-point attachment chin strap (included).



EVEREST textile four-point attachment chin strap (option, item number 00682).

Shell color	STANTART	RAPID	ZEN®
● orange	75514	75714	75314
● yellow	75515	75715	75315
● red	75516	75716	75316
○ white	75517	75717	75317
● blue	75518	75718	75318
● green	75519	75719	75319

ROSOMZ® recommends:

KSN 64 *Favori*T STAL SHTURM
composite protector for woodmen and machine builders

comprising of

- **SOMZ-55 *Favori*T** safety helmet,
- **KS/L STAL** protective face shield with mesh ocular,
- **SOMZ-25 Yamal™** earmuffs.

KS/L STAL protective
face shield with
mesh ocular



SOMZ-55 *Favori*T
safety helme

SOMZ-25 Yamal™
earmuffs

SOMZ-55 *Favorit Termo* safety helmet



Features:

- shell made of **SUPER Termotrek®** heat resistant material;
- Etalon harness with six-point attachment;
- K-5 chin strap made of natural leather;
- sweatband made of natural leather;
- 6 steps of wearing height adjustment;
- shell mass **300 g**;
- slots for earmuffs and face shield attachment;
- working temperature range from **-50°C to 150°C**.

The product approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50° C to +150° C**;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals.

Use:

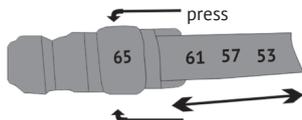
Head protection against small falling objects, droplets of liquids, molten metal splashes, contact with live parts under voltage 1000 V AC/1500 V DC both indoor and outdoor in -50°C ...150°C temperature range.

HEAT RESISTANT!



EN CE





STANDART headgear with stepped head size adjustment from 53 to 65 cm, step 4 mm.



RAPID – headgear with rack-and-pinion mechanism with smooth head size adjustment from 51 to 65 cm by means of the knob rotation.



ZEN® headgear with locking button and stepped head size adjustment from 53.5 to 64.5 cm, step 3 mm.



K-5 two-point attachment chin strap made of natural leather (included).

Shell color	STANDART	RAPID	ZEN®
● gold	76512	76712	76312
● silver	76513	76713	76313
● orange	76514	76714	76314
● yellow	76515	76715	76315
● red	76516	76716	76316
○ white	76517	76717	76317
● blue	76518	76718	76318
● green	76519	76719	76319
● black	76520	76720	76320

ROSOMZ® recommends:

KBT2 VISION® Termo

composite protector for metallurgists

comprising of

- **SOMZ-55 Favorit® Termo** safety helmet;
- **KBTM VISION® Termo** face shield with reflective visor



SOMZ-55 VISION® safety helmet



Features:

- shell made of Termotrek® material;
- Etalon harness with six-point attachment;
- textile chin strap;
- soft sweatband;
- vent holes with shutter for ventilation control;
- 6 steps of wearing height adjustment;
- shell mass **223 g**;
- slots for earmuffs and face shield attachment;
- working temperature range from **-50°C to +150°C**.

The product approved for:

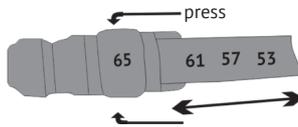
- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50° C to +150° C**;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals.

Use:

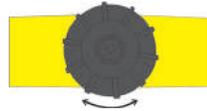
Head protection against small falling objects, droplets of liquids, molten metal splashes, contact with live parts under voltage 1000 V AC/1500 V DC both indoor and outdoor in -50°C ...+50°C temperature range

**IMPROVED
UPWARD VIEW!**





STANDART headgear with stepped head size adjustment from 53 to 65 cm, step 4 mm.



RAPID – headgear with rack-and-pinion mechanism with smooth head size adjustment from 51 to 65 cm by means of the knob rotation.



ZEN® headgear with locking button and stepped head size adjustment from 53.5 to 64.5 cm, step 3 mm.



R-5 textile two-point attachment chin strap (included).



EVEREST textile four-point attachment chin strap (option, item number 00682).

Shell color	STANDART	RAPID	ZEN®
● orange	78214	78714	78314
● yellow	78215	78715	78315
● red	78216	78716	78316
○ white	78217	78717	78317
● blue	78218	78718	78318
● green	78219	78719	78319
● black	78220	78720	78320

ROSOMZ® recommends:

KN1 Favort CRYSTALINE® composite protector for welder comprising of

- **SOMZ-55 Favort Termo** safety helmet;
- **KH CRYSTALINE® PROFI Favort** welding helmet with ADF and RAPID;
- **Favort CRYSTALINE®** liner;
- **RAPID YOGA СТАЛЬ** headgear

KH CRYSTALINE®
PROFI Favort
welding helmet



Favort
CRYSTALINE®
liner

SOMZ-55 VISION® *Termo* safety helmet



two-points chin strap attachment to the shell is possible

Features:

- shell made of **SUPER Termotrek®** heat resistant material;
- Etalon harness with six-point attachment;
- K-5 chin strap made of natural leather;
- sweatband made of natural leather;
- 6 steps of wearing height adjustment;
- shell mass **300 g**;
- slots for earmuffs and face shield attachment; working temperature range from **-50°C to +150°C**.

The product approved for:

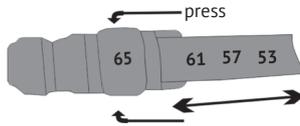
- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50° C to +150° C**;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals.

Use:

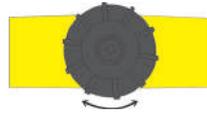
Head protection against small falling objects, droplets of liquids, molten metal splashes, contact with live parts under voltage 1000 V AC/1500 V DC both indoor and outdoor in -50°C ...150°C temperature range.

**HEAT
RESISTANT!**





STANDART headgear with stepped head size adjustment from 53 to 65 cm, step 4 mm.



RAPID – headgear with rack-and-pinion mechanism with smooth head size adjustment from 51 to 65 cm by means of the knob rotation.



ZEN® headgear with locking button and stepped head size adjustment from 53.5 to 64.5 cm, step 3 mm.



K-5 two-point attachment chin strap made of natural leather (included).

Shell color	STANDART	RAPID	ZEN®
● gold	79212	79712	79312
● silver	79213	79713	79313
● orange	79214	79714	79314
● yellow	79215	79715	79315
● red	79216	79716	79316
○ white	79217	79717	79317
● blue	79218	79718	79318
● green	79219	79719	79319
● black	79220	79720	79320

ROSOMZ® recommends:

KBT2 *Favori*T ENERGO composite protector comprising of

- SOMZ-55 VISION® Termo safety helmet
- KBT VISION® ENERGO protective face shield
- Favori®T GEFEST LUX heat resistant liner

For composite protection safety helmet is designed and tested against thermal risks of the electric arc.



SOMZ-55 *Favori*Trek safety helmet

BASIC PRICE!

Head protectors



Features:

- shell made of **TermotreK®** material;
- **trek** harness (plastic cradle) with six-point attachment;
- textile chin strap;
- vent holes with shutters for ventilation control;
- 6 steps of wearing height adjustment;
- shell mass **223 g**;
- slots for earmuffs attachment;
- working temperature range from **-30°C to 50°C**.

The product approved for:

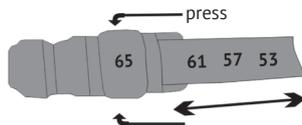
- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-30° C to +50°** ;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals.

Use:

Head protection against small falling objects, droplets of liquids, molten metal splashes, contact with live parts under voltage 1000 V AC/1500 V DC both indoor and outdoor in -50°C ...50°C temperature range.

ERL CE





STANDART headgear with stepped head size adjustment from 53 to 65 cm, step 4 mm.



RAPID – headgear with rack-and-pinion mechanism with smooth head size adjustment from 51 to 65 cm by means of the knob rotation.



ZEN° headgear with locking button and stepped head size adjustment from 53.5 to 64.5 cm, step 3 mm.



R-5 textile two-point attachment chin strap (included).



EVEREST textile four-point attachment chin strap (option, item number 00682).

Shell color	STANDART	RAPID	ZEN°
● orange	75114	75614	75414
● yellow	75115	75615	75415
● red	75116	75616	75416
○ white	75117	75617	75417
● blue	75118	75618	75418
● green	75119	75619	75419



Trek® plastic headgear – usable for cleaning



SOMZ-55 *Hammer* safety helmet



miner's lamp, item number 00077



TESTED!

Miner's lamp operating time is 8 hours at -20°C.

ENHANCED
IMPACT RESISTANCE!

Features:

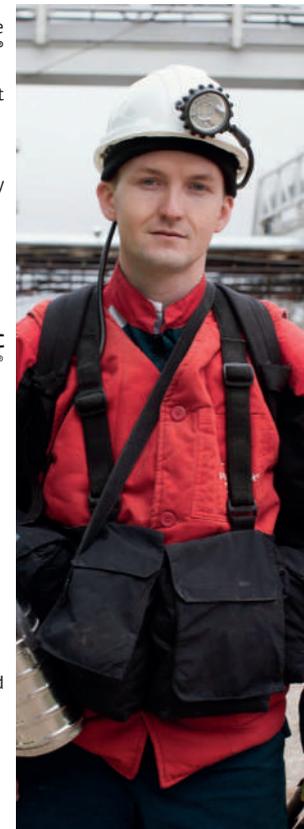
- slot for miner's lamp attachment and cable holder are anticipated on the shell which is made of **Termotrek®** material;
- **additional reinforcing rib** increases shell impact resistance;
- shortened **peak** extending upward view;
- **Etalon** cradle with textile anti-concussion tapes;
- **Trek®** plastic cradle in SOMZ-55 Hammer Trek® safety helmets;
- six-points cradle attachment;
- soft sweatband;
- 6 steps of wearing height adjustment;
- hooks for neck shade attachment;
- shell mass **265 g**;
- working temperature range from **-50°C to 50°C** (from **-30°C to 50°C** for SOMZ-55 Hammer Trek® safety helmets).

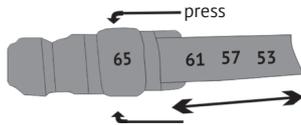
The product approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50° C to +50°** ;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals;
- single vertical impact 80 J.

Use:

Head protection principally in mining at overground and underground works.





STANDART headgear with stepped head size adjustment from 53 to 65 cm, step 4 mm.



RAPID – headgear with rack-and-pinion mechanism with smooth head size adjustment from 51 to 65 cm by means of the knob rotation.



ZEN® headgear with locking button and stepped head size adjustment from 53.5 to 64.5 cm, step 3 mm.



R-5 textile two-point attachment chin strap (included).



EVEREST textile four-point attachment chin strap (option, item number 00682).

SOMZ-55 Hammer safety helmet

Shell color	STANDART	RAPID	ZEN®
● orange	77514	77714	77314
● yellow	77515	77715	77315
● red	77516	77716	77316
○ white	77517	77717	77317
● blue	77518	77718	77318
● green	77519	77719	77319
● black	—	—	77320



Etalon cradle with textile anti-concussion tapes

SOMZ-55 Hammer RAPID SMART safety helmet
item numbers : 77714-77719

UV-aging indicator SMART apprising the user about necessity of safety helmet replacement by new one



Miner's lamp mounted onto the safety helmet



Trek® plastic cradle – easy to clean.

SOMZ-55 Hammer Trek® safety helmet

Shell color	STANDART	RAPID	ZEN®
● orange	77114	77614	77414
● yellow	77115	77615	77415
● red	77116	77616	77416
○ white	77117	77617	77417
● blue	77118	77618	77418
● green	77119	77619	77419
● black	—	77620	77420



Item number 00077

SOMZ-55 *Hammer Termo* heat resistant safety helmet

Head protectors



K-5 two-point attachment chin strap made of natural leather (included).

EN 12413 CE



SOMZ-55 *Hammer Termo* safety helmet

Shell color	STANDART	RAPID	ZEN®
● gold	74512	74712	74312
● silver	74513	74713	74313
● orange	74514	74714	74314
● yellow	74515	74715	74315
● red	74516	74716	74316
○ white	74517	74717	74317
● blue	74518	74718	74318
● green	74519	74719	74319
● black	74520	74720	74320

HEAT RESISTANT!

ENHANCED IMPACT RESISTANCE!

Features:

- shell made of **SUPER Termotrek®** material;
- slot for miner's lamp attachment and improved cable holder
- **additional reinforcing rib** increases shell impact resistance;
- shortened **peak** extending upward view;
- **-Etalon** cradle with textile anti-concussion tapes;
- **Trek®** plastic cradle in SOMZ-55 Hammer Trek® safety helmets;
- six-points cradle attachment;
- sweatband of natural leather;
- 6 steps of wearing height adjustment;
- hooks for neck shade attachment;
- shell mass **270 g.**

The product approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50° C to +50°** ;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals;
- single vertical impact 80 J.

Use:

Head protection against heat, molten metal splashes and hot solids, sparks and electric shock at elevated temperatures.

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

SOMZ-55 *Hammer Termo* heat resistant safety helmet



shell made of glass-filled Gefest Termotrek® material

The product approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from -50°C to 150°C;
- proof test voltage 5000 V;
- withstand test voltage 10 000 V;
- resistance to chemicals.

Features:

- shell made of glass-filled Gefest Termotrek® material;
- harness made of Polyamide 66 with 8-points shell attachment;
- sweatband made of natural leather;
- reinforced RAPID YOGA STAL harness specially designed for heat resistant safety helmets;
- special leather case for RAPID YOGA STAL mechanism protection against heat radiation;
- additional reinforcing rib increases shell impact resistance;
- shortened peak extending upward view;
- 6 steps of wearing height adjustment;
- hooks for neck shade attachment;
- place for logo;
- K-5 leather chin strap;
- shell mass approximately 400 g;
- working temperature range from -50°C to 200°C*.



74717



SOMZ-19 Zenit safety helmet



Safety helmet recommended for work at height



Shell color	STANDART	RAPID	ZEN®
orange	719214	719814	719314
yellow	719215	719815	719315
red	719216	719816	719316
white	719217	719817	719317
blue	719218	719818	719318
green	719219	719819	719319
black	719220	719820	719320



EVEREST (Max)– textile chin strap with 4-points attachment to the shell (included, item number 00687).

NEW!

SAFETY HELMET FOR WORK AT HEIGHT

Features:

- stylish and comfortable safety helmet for prolonged work at height;
- shell made of **Termotrek®** material;
- **Etalon** harness with textile anti-concussion tapes;
- soft sweatband;
- textile chin strap with two- or four-points (for work at height) attachment to the shell;
- improved shell ventilation;
- shortened peak extending upward view;
- enlarged place for logo;
- 6 steps of wearing height adjustment;
- shell mass **235 g**.

The product approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50° C to +150°** ;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals;

Use:

Head protection against heat, molten metal splashes and hot solids, sparks and electric shock.



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

EVEREST (Max) chin strap

NEW!



00687



Basic configuration with fabric chin rest

00688



Option with plastic molded chin rest

Advantages:

hitch-catch



size adjustment



four-points attachment to the shell



Completed with:



SOMZ-19 Zenit



SOMZ-58 Arctica

Completed by request:



RFI-7 TITAN



RFI-3 BIOT



SOMZ-55 Hammer



SOMZ-58 Arctica safety helmet

NEW!

**FIRST ONE WITH
72 CM HEAD SIZE
HARNESS**

**INCREASED
INTERNAL
SPACE**



Safety helmet recommended for work at height



RAPID YOGA Stal	
● orange	758814
● yellow	758815
● red	758816
○ white	758817
● blue	758818
● green	758819
● black	758820

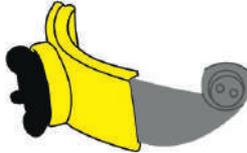
Safety helmet with enlarged shell size specially designed for use with fur winter cap or heated liner that is especially needed in extremely cold environments (Russian IV and Arctic climatic zones), for men of solid body type.

Features:

- increased shell size (two ones are available – 52-68 cm and 52-72 cm);
- shell made of **TermotreK®** material;
- Etalon harness with textile anti-concussion tapes;
- reinforcing rib;
- soft sweatband;
- textile chin strap with two- or four-points (for work at height) attachment to the shell;
- improved shell ventilation;
- prolong peak;
- enlarged place for logo;
- 6 steps of wearing height adjustment;
- shell mass **340 g.**



RAPID YOGA Stal— head size smoothly and precisely adjusts by knob rotation (it is necessary to press the knob before rotation, then hold it during adjustment).



EVEREST (Max)— textile chin strap with 4-points attachment to the shell (included, item number 00687).



The product approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50°C to +50°C**;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals.

Use:

Head protection against heat, molten metal splashes and hot solids, sparks and electric shock.



Safety helmets with **FLUORESCENT** shell

WORK IN DARKNESS!



This safety helmet allows to detect presence of a human in dark time, reduces trauma risk caused by vehicle collision

Features:

- shell made of fluorescent material;
- **reinforcing rib** (SOMZ-55 Hammer Light helmet);
- Etalon cradle;
- soft sweatband;
- hooks for neck shade attachment enlarged place for logo;
- 6 steps of wearing height adjustment.

The product approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from **-50°C** to **+50°C**;
- proof test voltage **5 000 V**;
- withstand test voltage **10 000 V**;
- resistance to chemicals.



EMC CE



Use:

Head protection against heat, molten metal splashes and hot solids, sparks and electric shock.

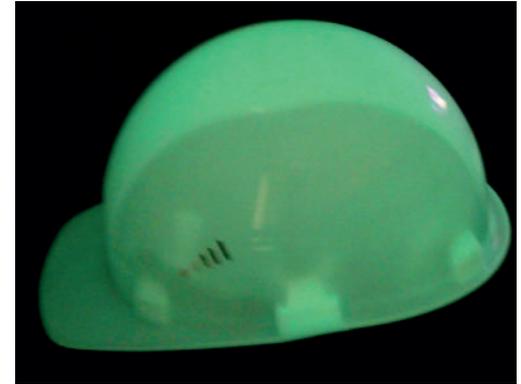


EVEREST textile four-point attachment chin strap (option, item number 00682.)



R-5 textile two-point attachment chin strap (included).

For enhanced safety apply reflective marks on the shell



Helmet shell glows in the dark so presence of a human is easily to detect.

SOMZ-55
Favorit Light

SOMZ-55
Favorit Trek Light

SOMZ-55
ВИЗНОН Light

RFI-3 *BiOT Light*

SOMZ-55
Hammer Light

RFI-7 TITAN
Light

STANDART

75511

75111

78211

73511

77511

71511

RAPID

75711

75611

78711

73711

77711

71711

ZEN

-

75411

78311

73311

77311

71311

RZ Favorit® CAP industrial bump caps

PROLONG PEAK



wide assortment of colors



Head size range: 56-59 cm



75mm



Outer soft pad made of foamed plastic

Features:

- side ventilation holes for air exchange;
- impact resistant plastic shell;
- outer cap made of "breathing" cotton fabric;
- outer soft pad made of foamed plastic;
- head size adjustment by means of Welcro;
- 7.5 cm long peak provides eye protection against bright sunlight and droplets of water;
- optional chin strap

Function:

Industrial bump caps are intended to provide protection to the wearer against the effects of striking his/her head against hard stationary objects with sufficient severity to cause laceration or other superficial injuries. They are not intended to provide protection against the effect of falling or thrown objects or moving or suspended loads.

- ✓ Lightweight!
- ✓ High quality and comfort!
- ✓ Bright colors!
- ✓ Advanced ventilation for unbeaten comfort!
- ✓ Place for logo!

PROTECTION AGAINST HEAD CONTUSION



Embroidered logo is possible upon your request



Use:

machine building, automotive industry, oil and gas extraction and processing, warehousing operations and logistics, etc.

Bump caps color gamut:

without logo	with logo	color	without logo	with logo	color
95509	95309	● bluet	95516	95316	● red
95510	95310	● dark gray	95517	95317	● white
95511	95311	● gray	95518	95318	● dark blue
95513	95313	● celestial blue	95519	95319	● green
95514	95314	● orange	95520	95320	● black
95515	95315	● yellow			

These items are available with side ventilation holes

**PROTECTION AGAINST
HEAD CONTUSION**

- ✓ Lightweight!
- ✓ High quality and comfort!
- ✓ Bright colors!
- ✓ Advanced ventilation for unbeaten comfort!
- ✓ Place for logo!



wide
assortment
of colors



**Embroidered logo is
possible upon your
request**



Head size range: 56-59 cm



Outer soft pad made
of foamed plastic

RZ VISION® CAP industrial bump caps

shortened peak


Features:

- side ventilation holes for air exchange;
- impact resistant plastic shell;
- outer cap made of "breathing" cotton fabric;
- outer soft pad made of foamed plastic;
- head size adjustment by means of Welcro;
- 5.5 cm long peak provides eye protection against bright sunlight and droplets of water;
- optional elastic chin strap (item number 00675).

Function:

Industrial bump caps are intended to provide protection to the wearer against the effects of striking his/her head against hard stationary objects with sufficient severity to cause laceration or other superficial injuries. They are not intended to provide protection against the effect of falling or thrown objects or moving or suspended loads.

Use:

machine building, automotive industry, oil and gas extraction and processing, railroad, warehousing operations and logistics, etc.

Bump caps color gamut:

without logo	with logo	color	without logo	with logo	color
98209	98309	bluet	98216	98316	red
98210	98310	dark gray	98217	98317	white
98211	98311	gray	98218	98318	dark blue
98213	98313	celestial blue	98219	98319	green
98214	98314	orange	98220	98320	black
98215	98315	yellow			

These items are available with side ventilation holes

RZ BIOT® CAP industrial bump caps

NEW



- style
- comfort
- protection



- reinforcing rib
- outer soft pad made of foamed plastic
- ventilated shell
- holes for chin strap attachment



Shortened peak (5.5 cm long) for advanced upward view



lattices for ventilation



Reflective straps provides good visibility at bad weather conditions and dark time



Head size range adjustment: 56-59 cm.

- stylish design;
- shell made of ABS plastic;
- side lattices provides good ventilation;
- lateral reflective straps provides excellent visibility in dark time and in bad weather conditions;
- 5.5 cm long peak provides extended viewing.

Use:

machine building, automotive industry, oil and gas extraction and processing, railroad, warehousing operations and logistics, etc.



Embroidered logo for corporate style support.



Variety of colors, combination of colors are available.

**Fashionable RZ BIOT® CAP****Bump caps color gamut:**

Item number	color	Item number	color
92210	dark gray	92216	red
92211	gray	92217	white
92213	celestial blue	92218	dark blue
92214	orange	92220	black
92215	yellow		

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Liner for safety helme

Favorit CRYSTALINE®

00938

HEAT RESISTANT



- suitable for use with safety helmet, welding helmet, protective face shield;
- flame retardant, non-flammable, self-extinguishing THERMOSHIELD material (impregnated cotton);
- approved for resistance to molten metal splashes;
- excludes moisture penetration, save heat;
- soft, hygienic, breathable;
- save its properties after washing;
- working temperature range from -10°C to 180°C;
- mass 70 g;
- recommended for head protection against industrial contamination, dust, sparks, radiant and convective heat.

Liner for safety helmet PILOT

00941

HEATED



- recommended for workers of various professions for work at low temperature at sites where safety helmet use is necessarily;
- fastens to the safety helmet headband by means of Velcro fasteners;
- head size adjustment prevents cold air ingress and save heat even at low temperature;
- liner top is made of leather;
- imitation fur lining;
- suitable for other safety helmet models.

Headgear for adults:

liner of synthetic yarn

NEW!

6816



- suitable for use with safety helmet, welding helmet, protective face shield;
- comfortable for over shift wearing;
- ears and nape protection due anatomic cut;
- outer side made of wear-proof material (microfleece) save its protective performance during long time;
- inner side made of hydrophobic polyester;
- working temperature range from -15°C to 10°C;
- mass 36 g;
- recommended for head top and nape protection against industrial contamination, dust, sparks, radiant and convective heat.



Liner for safety helmet Favorit SURGUT

00940

HEATED



- intended use: head protection at cold operation;
- universal size;
- imitation fur lining;
- mass 165 g;
- recommended for face and neck protection against industrial contamination, dust, sparks, cold.



welcro loops for attachment to the safety helmet harness



inside view

Woolen liner for safety helmet

Favori^T GEFEST 00936

- modern "metallurgist hat";
- heat resistant, does not break through;
- resistant to sparks and metal spray;
- universal size;
- mass 114 g;
- suitable for use together with heat resistant safety helmets and face shields;
- recommended for face and neck protection against industrial contamination, dust, sparks, radiant and convective heat.



Loop for leather chin strap attachment
Item number: 00673

**NON-BREAKING
THROUGH**

Woolen liner for safety helmet

Favori^T GEFEST 3 00937

- heat resistant, does not break through;
- resistant to sparks and metal spray;
- universal size;
- suitable for use together with heat resistant safety helmets and face shields;
- recommended for face, neck and chest protection against industrial contamination, dust, sparks, radiant and convective heat in especially hard work conditions.



**NON-BREAKING
THROUGH**

Heat resistant liner for safety helmet

Favori^T GEFEST LUX 00934

- heat resistant;
- flame retardant Proban® material;
- universal size;
- recommended for use in KBT2 Favori^T ENERGO set;
- also suitable for use together with heat resistant safety helmets and face shields;
- recommended for face and neck protection against industrial contamination, dust, sparks, radiant and convective heat, protection against risks of electric arc flash.



HEAT RESISTANT

Heat resistant liner for safety helmet

Favori^T GEFEST ENERGO 00939

- protection of head, neck and upper part of chest;
- flame retardant Thermoshield KPRO material;
- universal size;
- also suitable for use together with heat resistant safety helmets and face shields;
- recommended for face and neck protection against industrial contamination, dust, sparks, radiant and convective heat, protection against risks of electric arc flash.



HEAT RESISTANT

Neck shade for safety helmet PARTNER UNIVERSAL 1

00931



- made of vinyl artificial leather;
- universal size;
- louvers for attachment to the safety helmet headband hooks;
- suitable for use with a set KBT comprising of safety helmet and protective face shield;
- recommended for nape and neck protection against industrial contamination, dust, sparks, droplets of liquids, atmospheric precipitation.

Neck shade for safety helmet PARTNER UNIVERSAL 2

00932



- made of vinyl artificial leather;
- universal size;
- louvers for attachment to the safety helmet headband hooks;
- recommended for nape, neck and top part of a back protection against industrial contamination, dust, sparks, droplets of liquids, atmospheric precipitation.

Neck shade for safety helmet PARTNER UNIVERSAL 3

00933



- made of vinyl artificial leather;
- universal size;
- louvers for attachment to the safety helmet headband hooks;
- clasps at the front;
- suitable for use with a set KBT comprising of safety helmet and protective face shield;
- recommended for nape, neck, shoulders and top parts of a back and chest protection against industrial contamination, dust, sparks, droplets of liquids, atmospheric precipitation.

Neck shade for safety helmet *Favorit* Standart

00935



- cotton wool lining for heat insulation;
- size adjustment by means of lacing;
- outer layer – wear-proof blue cotton fabric;
- inner layer – soft white cotton fabric;
- working temperature range from +15°C to -60°C;
- mass 175 g;
- recommended for use with safety helmet, welding helmet, protective face shield



Composite PPE for eye, face, head and hearing protection



Welder's set

- PPE set comprising of:
- SOMZ-55 **VISION® Termo** safety helmet
 - KN CRYSTALINE® PROFI **Favori®T** with ADF
 - Favori®T PROFI Liner



Woodman's set

- PPE set comprising of:
- RFI-3 BIOT safety helmet
 - KS/L STAL mesh visor protective face shield
 - SOMZ-5 SHTURM earmuffs



Machine builder's and metallurgist's set

- PPE set comprising of:
- SOMZ-55 **Favori®T Termo** safety helmet
 - KBT **VISION®** TITAN protective face shield



Metallurgist's set

- PPE set comprising of:
- SOMZ-55 **VISION® Termo** safety helmet
 - KBT **VISION®** TITAN protective face shield
 - OK3 flip-on furnace observation glasses



Universal PPE set or all types of work

- PPE set comprising of:
- SOMZ-55 **VISION®** safety helmet
 - KBT **VISION®** TITAN protective face shield
 - SOMZ-5 SHTURM earmuffs



Electrician's set

- PPE set comprising of:
- SOMZ-55 **Favori®T Termo** safety helmet
 - KBT **VISION®** ENERGO protective face shield
 - Favori®T GEFEST LUX liner



Metallurgist's set

- PPE set comprising of:
- COM3-55 **Favori®T Termo** safety helmet
 - KBTM **VISION®** TERMO protective face shield



Universal PPE set or all types of work

- PPE set comprising of:
- RFI-3 BIOT safety helmet
 - SOMZ-5 SHTURM earmuffs



Miner's set

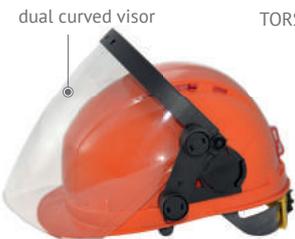
- PPE set comprising of:
- SOMZ-55 Hammer safety helmet
 - SOMZ-35 Champion earmuffs
 - **PANORAMA** protective goggles
 - protective face shield for **PANORAMA** goggles

DRUZHBA PPE set

Unique Slide system of face shield locking
no wind effect in
non-working position



KBT VISION® TITAN RX



KBT Sfera VISION® TITAN RX



INNOVATION AT YOUR SERVICE!

PPE set comprising of protective face shield, helmet mounted (KBT VISION® TITAN RX, KBT Sfera VISION® TITAN RX, KBT SUPER VISION® RX, KBT Sfera SUPER VISION® RX) and **RFI-3 Blot®** safety helmet, indispensable for work at height and in restricted areas.

Features:

- composite protection against mechanical effects (medium and high energy impact of high speed particles), heat, UV-radiation, sparks and metal spray in wide temperature range;
- suitable for use with corrective spectacles and respirator;
- compactness in non-working position;
- heat resistant helmet adapter;
- clear visor with non-fogging and hard coating;
- dual-lever locking mechanism providing long-term operation;
- possibility of earmuffs mounting;
- easy changing of the visor and earmuffs.

RFI-3 Blot® safety helmet approved for:

- penetration and shock absorption;
- resistance to molten metal splashes;
- resistance to lateral deformation;
- working temperature range from -50°C to +150°C;
- proof test voltage 5000 V;
- withstand test voltage 10 000 V;
- resistance to chemicals.

Meets EN 397 and EN 50365 requirements.

Protective face shield mounted onto *RFI-3 Biot* safety helmet

working position



intermediate (standby) position



non-working position



Unique **Slide** system of face shield locking assures maximum comfort and freedom of action, easy face shield transposition from one position to another. When there is no necessity of face protection, the visor might be easily lifted and locked. In working position the visor adheres to the helmet without gap, preventing hard particles ingress inside.



Powered air purifying respirators (PAPRs)

PAPR is a device intended for respiratory protection against airborne harmful substances such as dust, fumes, aerosols, vapor and gases.

PAPR comprises of:

- face piece (welding helmet, protective face shield or hood);
- power unit;
- filter(s).

FACE PIECES

NNV12 CRYSTALLINE® welding helmet



Helmet shell made of heat/cold resistant SUPER Termotrek® material equipped with fabric seal reliable protects welder's face and neck against sparks, metal spray and arc radiation. Automatic welding filter (110x90x5 mm) protected outside by panoramic PC cover lens and non-fogging back plate inside. Mass: 500g.

Use:

eye and face protection in machine building, oil and gas extraction and processing, construction, repair and mounting works upon welding in contaminated environments.

CA-40 protective helmet



Use:

eye and face protection upon arc welding in hard working conditions.

Comprises of safety helmet and welder's protective flih-up face shield with ADF, earmuffs attachment is possible. Shell is resistant to immersion in water and withstands medium energy impact of high speed particles. ADF is protected impact resistant panoramic cover lens. Flip-up shield is well balanced and reliable locks in working and non-working position. Built-in air distribution system is anticipated. Mass: 1100 g

UNV.000.02 protective helmet



PPE comprising of impact resistant shell with headgear covered by the hood made of artificial vinyl leather. Could be used together with CleanAir® Basic2000 power unit or with CleanAir® Pressure breathing apparatus.

Use:

composite eye, face, head and respiratory protection against hard particles together with airborne harmful substances in temperature range from 10°C to 40°C at sand- and shotblasting.

NBTV2 VISION® protective face shield



Enlarged visor with fabric seal is made of 2mm thick PC or CA (1.6 mm thick). Both visor options has anti-fog and hard coating, forehead made of heat/impact resistant material. Visor optical class one, mass: 350g.

CA-10 universal hood



Use:

in dusty and chemicals containing environments, painting, laboratories, pharmacy, workplaces with higher requirements to chemical protection.

Enlarged visor made of cellulose propionate, hood made of polyester coated with PVC, gray, resistant to chemicals. Adjustable headband, assures user comfort. The size of the hood can be adjusted in two points – on the neck and scruff. Protection factor 500, mass: 220 g.



with CleanAIR® Basic 2000 unit with CleanAIR® Pressure breathing apparatus



Powered air purifying respirator (PAPRs)

30 00 00PA "CleanAIR" AerGo



Mass: 890 g
(including battery)

Use:

respiratory protection in automotive industry, ship building, agriculture, construction etc. Usable at arc welding, grinding, cutting with abrasive disk.

Power unit with two particulate filters equipped with flow control system alarm system which warns user about low battery and filter blocking, provides respiratory protection against aerosols. Unit is useable at works in restricted areas.

Specifications:

- minimum air flow 160 l/min
- maximum air flow 210 l/min
- dimensions: 235x126x65 mm
- Li-ion chargeable battery
- operating time up to 10 hours
- battery charging time 2,5 hours
- working temperature range from 10°C to 40°C
- filters: 2 PR SL particulate filters

51 00 00FA "CleanAIR" Chemical 2F



Mass: 960 g (including battery).

Use:

respiratory protection in heavy, chemical, pharmaceutical industry, chemical labs.

Power unit with two particulate or class 1 combined filters. Compact, ergonomic shape device with flow control system, alarm system which warns user about low battery and filters blocking. All necessary information about unit operation is displayed on the color display. Decontamination in a shower is possible.

Specifications:

- minimum air flow 120 l/min
- maximum air flow 235 l/min
- dimensions: 240x110x120 mm
- Li-ion chargeable battery
- operating time up to 10 hours
- battery charging time 3 hours
- working temperature range from 0°C to 40°C
- filters: 2 P3 particulate filters, or A1P3, A1B1E1P3 combined filters

63 00 00 "CleanAIR" PRESSURE



Use:

respiratory protection upon work in atmosphere with oxygen content less than 17% or harmful substances concentration more than 0.5%, welding and repair works in confined space, restricted area, painting.

Breathing apparatus comprising of filter, high pressure hose, waist belt, air flow regulator, breathing tube and face piece. Apparatus works from compressed air source, filter is intended for air cleaning from oil, water mist, rust and unpleasant odors.

Specifications:

- air flow range from 160 to 400 l/min
- flow regulator case material – polyamide
- noise level 61 dB
- input pressure 300 – 1000 kPa
- mass: 250 g

52 00 00FA "CleanAIR" Chemical 3F



Mass: 1100 g
(including battery)

Use:

respiratory protection in heavy, chemical, pharmaceutical industry, chemical labs.

Power unit with three class 2 combined filters. Durable, ergonomic shape device with flow control system, alarm system which warns user about low battery and filters blocking. All necessary information about unit operation is displayed on the full color display. Decontamination in a shower is possible.

Specifications:

- minimum air flow 120 l/min
- maximum air flow 235 l/min
- dimensions: 320x200x150 mm
- Li-ion chargeable battery
- operating time up to 10 hours (depending on flow rate and filter type)
- battery charging time 3 hours
- working temperature range from 0°C to 40°C
- filters: three P3; A2P3; A2B2P3; A2B2E2K2P3; A2B2E2K2H2P3 combined filters

81 00 00PA Basic EVO

Lightweight, compact innovative power unit!



Mass: 880 g
(including battery)

- operating time up to 10 hours (depending on air flow)
- battery charging time 4-5 hours
- sound and light alarms (low battery and filter blocking)
- new design of the control panel
- noise level 70 dB
- filter: PR SL particulate filter

Use:

welding, grinding, dusty environment, automotive industry, ship building, construction, food industry.

Replaces time-proven popular model Basic 2000. The model combines new appearance with state-of-the-art technology with acceptable price. The unit provides effective respiratory protection against solid and liquid aerosols, dust, fumes, mist, fibers.

Specifications:

- minimum air flow 170 l/min
- maximum air flow 240 l/min
- dimensions: 181x173x104 mm
- simple control by means of only one button
- Li-ion chargeable battery

Basic Dual Flow 82 00 00PA Basic Flow Control 80 00 00PA



Model is available before warehouse inventory termination. Please contact sales managers.

CleanSpace2 powered air purifying respirator



PAF 0034



Personal protective device for those who are seeking progressive mobile solutions in the field of protection against dust pollutions.

Respiratory protection is important for your health!

Face pieces

Half mask large	PAF-0027
Half mask medium	PAF-1010
Half mask small	PAF-0033
Full face mask	PAF-1014



To those who are not partial to their health, ROSOMZ® offers Hi-Tech innovative **CleanSpace 2** respirator for protection against hazardous and harmful air contaminants. Powered air purifying respirator (PAPR) comprises of: soft silicone face piece (half mask of 3 sizes), two flexible air ducts; compact noiseless power unit with built-in battery and filter. Power unit is controlled by intellectual system which can recognize breathing intensity: air flow is increasing at intensive breathing and decreasing at quiet breathing. This feature allows to spare battery charge and prolongs filter life. Portable PAPR protects against dust, aerosols, odors, bacteria and viruses due its HEPA filter. Clean air supply under the face piece allows to work long time, contributes productivity and quality rise.

Specifications:

- 3 levels of air flow comfort value;
- maximum air flow value – 220 l/min;
- mass – 500 g;
- audible alarm level – 75 dBA;
- motor life - 10 years, battery life – 3 years or 500 charge/discharge cycles;
- automatic switch off in 3 minutes after use finishing;
- battery charging to 95% capacity – 2 hours;
- working temperature range 0 – 45°C;
- storing temperature – from -10°C to 35°C;

Use:

welding, woodwork, metal melting, construction, mining, metal work and other works connected with dust, smoke and aerosols pollution into the ambient air indoor and outdoor.

Recommended use:

together with NN12 CRYSTALINE® welding protective face shields (including helmet mounted) for reliably protection against welding aerosols and dust



together with ROSOMZ® safety goggles (no ventilation) for eye reliable protection in conditions where eyes irritation or injury are possible



together with protective face shields (including helmet mounted) for additional face protection against high speed particles


Important information for safe use:

- Do not doff your respirator until you leave contaminated area.
- Use safety goggles in conditions that may cause eyes irritation or injury.
- Do not use the respirator whilst it is off or does not work normally.
- Do not use the respirator during battery charging.
- Do not use the respirator in oxygen depleted or enriched atmosphere. Do not use the respirator in explosion- and fire dangerous environments.

You always can additionally purchase face pieces and filters.

ROSOMZ® CleanSpace2 delivery set includes:


CleanSpace2 together with corrective safety spectacles

Power unit PAF 0034 	Particulate filter PAF 0035  <small>*Option: combined filter for protection against gases and vapors</small>	Charger 	Head harness PAF 0030 
Test cap for flow checking 	Neck pads (thick and thin) PAF 0014 и PAF 0016 	Cover for storage and transportation 	Face piece and filters delivers separately!

* Special filters and adapters are needed for protection against gases and vapors. Ask your sales manager for detail information.

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

CleanSpace Ultra powered air purifying respirator

DUST/MOISTURE PROTECTED

Respiratory protectors



This PAPR protects against aerosols, gases and their combinations, its intelligent breathe responsive flow control system allows to spare battery charge: air flow is increasing at intensive breathing and decreasing at quiet breathing

CleanSpace ULTRA is dust-water protected device (IP66 protection category) so its decontamination under shower is possible. IP66 degree of protection means that dust ingress inside is completely excluded, upon strong water jets exposure water does not ingress inside the unit.

Specifications:

- ergonomic shape and low weight – only 500 g ;
- motor life - 10 years, battery life – 500 charge/discharge cycles;
- working time up to 8 hours (with PRSL filter at 160 l/min air flow);
- automatic switch off in 3 minutes after use finishing;
- battery charging to 95% capacity – 2 hours;
- working temperature range from -10°C to 45°C;
- air flow value 120 – 220 l/min;
- audible alarm level – 75 dBA;

PAF-0070

ERC



CleanSpace Ultra comprises of:

power unit, charger, particulate filter, head harness, test cap for flow checking, 2 neck supports (large and small), User manual, cover for transportation and storage.

Face pieces and filters sells separately.

Face pieces

- | | |
|------------------|----------|
| Half mask large | PAF-0027 |
| Half mask medium | PAF-1010 |
| Half mask small | PAF-0033 |
| Full face mask | PAF-1014 |



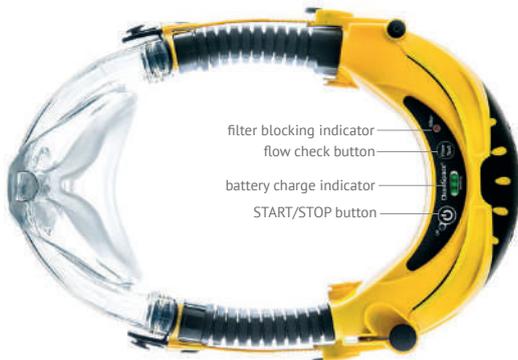
Use:

- asbestos removal;
- work with chemicals;
- lead waste recycling;
- work under danger of infection;
- rescue works.



Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

CleanSpace EX powered air purifying respirator

This PAPR protects against aerosols, gases and their combinations, its intelligent breathe responsive flow control system allows to spare battery charge: air flow is increasing at intensive breathing and decreasing at quiet breathing.

CleanSpace Ex is explosion-protected device approved for use in explosive environments according to IEC 60079.0:2012, IEC 60079.11:2011. Its explosion-proof properties are achieved due electronic components encapsulation and choice of face pieces material and design.

Specifications:

- ergonomic shape and low weight – only 500 g ;
- motor life - 10 years, battery life – 500 charge/discharge cycles;
- working time up to 8 hours (with PRSL filter at 160 l/min air flow);
- automatic switch off in 3 minutes after use finishing;
- battery charging to 95% capacity – 2 hours;
- working temperature range from -10°C to 45°C;
- air flow value 120 – 220 l/min;
- audible alarm level – 75 dBA;

PAF-0061

EAC**CleanSpace EX comprises of:**

power unit, charger, particulate filter, head harness, test cap for flow checking, 2 neck supports (large and small), User manual, cover for transportation and storage

Face pieces and filters sells separately.**Face pieces**

Half mask large	PAF-0063
Half mask medium	PAF-0062
Half mask small	PAF-0064
Full face mask	PAF-1014

**Use:**

- underground mining;
- oil extraction and processing;
- petrochemistry;
- chemicals handling;
- food industry where explosive dust is present.

Explosion safety approvals: IEC 60079.0:2012, IEC 60079.11:2011 – Ex ia I Ma, Ex ib IIB T4 Gb:

IEC Ex marking meaning:

Ex – explosion protected
 ia – type of ignition protection (intrinsic safety, very high protection)
 ib – type of ignition protection (intrinsic safety, high protection)
 I – gas group Methane
 IIB – gas group Ethylene
 Ma – equipment protection level for underground mining
 T4 – temperature class (maximum surface temperature 135°C)
 Gb – equipment protection class (high)

EN 60079-0:2012, EN 60079-11:2012:
 Ex I M1 Ex ia I Ma
 Ex I I 2 G Ex ib I I B T4 Gb

ATEX marking meaning:

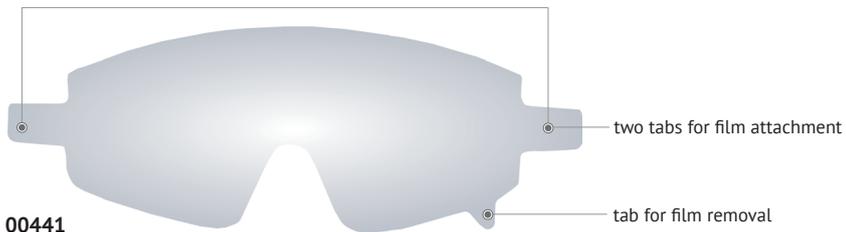
Ex – explosion area symbol
 I – equipment group (underground mining)
 II – equipment group (explosive atmospheres others than underground mining)
 Ex - explosion protected
 ia – type of ignition protection (intrinsic safety, very high protection)
 ib - type of ignition protection (intrinsic safety, high protection)
 IIB – gas group Ethylene
 T4 – temperature class (maximum surface temperature 135°C)
 Gb – equipment protection class (high)

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Protective film for PANORAMA goggles

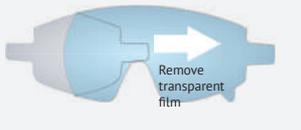
We recommend to use protection film for PANORAMA lens protection against abrasives, droplets of aggressive liquids, sparks. Protective film prolongs goggles' working life, save lens optical class one. Set of 10 pieces



00441

1

Remove transparent film from the inner side of the protection film



3

Remove white outer film from tab. Then insert the tab into the frame slot.



2

Place protective film uniformly over protective lens surface



4

Completely remove outer white film



Replace protective film after its contamination with new one. Protective film is disposable, do not clean it and do not use it repeatedly

Protective film for NBT and KBT* protective face shields



Before protective face shield use remove outer and inner protective film from the visor.

* only for models with PC visor 1 (0.75) mm thick

00140 Set of protective film 005 (for VISION® with 220x315 mm visor)

00340 Set of protective film 006 (for VISION® with 220x385 mm visor)



Parts and accessories

Item number	Product name	Photo	Description
00762/00460	Sweatband set for safety helmets/ face shields		Soft material
00782/00480	Sweatband set for safety helmets/ face shields		Soft hypoallergic material
00772/00470	Sweatband set for safety helmets/ face shields		Sweatband of natural leather
00490	ROSOMZ® flame retardant sweatband (for forehead)		Changeable sweatband made of 100% cotton. Soft, breathable, absorptive, hypoallergic. Set of 2 pcs
00495	ROSOMZ® flame retardant sweatband (for nape)		Changeable sweatband made of 100% cotton. Soft, breathable, absorptive, hypoallergic. Set of 2 pcs
00930	ROSOMZ® bag		For a box with welding helmet + box with PAPR. Reinforced bottom. Dimensions: 45x29x30 cm
00129	Clip-on filter (3PC) for protective spectacles		Flip-up clip-on filter suitable for O15 HAMMER ACTIVE, O2 SPECTRUM, O34 PROGRESS, O5 TOCHNOST, O85 ARCTIC, O87 ARCTIC, O88 SURGUT, O13 Favori® Office.
00134	Clip-on filter (5PC) for protective spectacles		
00077	Miner's lamp		Miner's lamp with adapter for safety helmet mount, Li-ion chargeable battery.
00441	Protective film		Intended for PANORAMA lens protection against droplets of aggressive liquids
00140	Set of protective film 005		For VISION® with 220x315 mm visor For VISION® with 220x385 mm visor
00340	Set of protective film 006		
00873	Universal soft case 14x23.5 cm, color printing		Soft case with full color printing for goggles storage. Removes fingerprints and other contamination without traces.
00687	Everest (Max) chin strap		With fabric chin rest/with plastic chin rest
00688			

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Parts and accessories

Item number	Product name	Photo	Description
00681	Set of R-5 chin strap		Textile chin strap
00671	Set of K-5 natural leather chin strap		Natural leather chin strap
00682	Set of EVEREST chin strap		Four-points textile EVEREST chin strap
00230	Set of front cover protective plates 110x90 mm for safety helmet		Clear PC front cover plate, set of 10 pcs in individual packing
00263 00268	Set of filters 110x90 mm for welding helmet		Mineral glass filters, set of 10 pcs in branded box
00363 00368	Eye protective set for welding helmet		Set of 1 mineral glass filter and 1 PC front cover plate in branded box
00430	Set of back cover plates for welding helmet		Clear PC back cover plate 105x54 mm, set of 10 pcs in individual packing
00207 00407	Set of non-fogging back cover plates for welding helmet		Clear PC StrongGlass™ non-fogging/hard coated back cover plate 110x90 mm, set of 10 pcs in individual packing
00630	Set of panoramic front cover lenses for welding helmet		Clear PC panoramic front cover lens 130x160 mm, set of 5 pcs with fasteners and washers.
00711	Smart holder		Smart holder for goggles headband fastening to the safety helmet shell

Personal Protective Equipment

Sales department tel: +7 34275 33 777; 8 800 707 41 84

Notation of ROSOMZ® PPE performance

	low mass
	protection against heat and cold
	resistance to different weather conditions
	protection against sparks, metal spray, slag
	resistance to abrasion
	anti-fog coating
	anti-reflection coating
	gold vacuum coating
	protection against petrochemicals
	resistance to chemicals

	antistaticity
	protection against electric shock
	suitable to wear with corrective spectacles
	temples with holes for a cord attachment
	protective lens or visor tilt adjustment
	temple length adjustment
	unisex model
	protection against mechanical effect
	enhanced protection against mechanical effect
	100% UV protection

Notation of ROSOMZ® PPE use

	machine building		chemical industry
	automotive industry		lumbering and woodworking
	transport		work with hand tools
	metallurgy		painting
	oil extraction and processing		mining, stone working
	gas extraction and processing		medicine
	atomic power energetics		work with chipping hammer
	electric power energetics		work with electric tool
	construction and repair		grinding
	welding		gardening
	loading works		

General characteristics of ROSOMZ® PPE oculars

Ocular designation	Description
PC StrongGlass™	Polycarbonate ocular (lens or visor) with high grade water resistant anti-fog/hard coating. Provides protection against high speed particles, UV radiation, Saves its protective properties during long-term use. Resistant to abrasion.
PC super	Polycarbonate ocular with generic anti-fog/hard coating. Provides protection against high speed particles, UV radiation.
PC	Polycarbonate ocular with hard coating. Provides protection against high speed particles, UV radiation. Resistant to abrasion. Generally is made of PC sheet.
CA	Cellulose acetate ocular with hard coating on outer side/anti-fog coating on the inner side (clear) or double-side hard coating (filters). Provides protection against high speed particles, UV radiation. Resistant to chemicals, abrasion, offers anti-static and self-polishing properties. Oculars are made of CA sheets.
Absolute (replaced Plexiglas)	PC ocular with double sided high grade hard coating. Resistant to abrasion and surface damaging by fine particles.
Mineral glass	Oculars made of hardened (clear) of conventional mineral glass (filters). Exclusively resistant to abrasive effect, heat, but offers moderate protective properties in relation of resistance to higher energy impacts.

General characteristics of filtering oculars

Filter color	Filter color	Intended use	Notation	UV absorption
	Clear	Eye protection against mechanical risks, UV radiation		99,99%
	Gray	Eye protection against mechanical risks, sun-glare and UV radiation		99,99%
	Green	Eye protection against mechanical risks, UV and IR radiation generally upon gas welding and oxygen cutting		99,99%
	Light orange	Eye protection against UV radiation upon work with low power UV radiation sources		99,99%
	Orange	Enhanced (570 nm wavelength cut) protection against UV radiation upon work with low power UV radiation sources		99,99%
	Light yellow	Eye protection against UV and blue light, work with computer		99,99%
	Amber	Eye protection against UV and blue light, daylight driving at bad weather conditions, contrast increasing.		99,99%
	Blue with mirror coating	Eye protection against bright sunlight and glare, UV radiation		99,99%

Chemical durability of ROSOMZ® PPE oculars

Ocular material	Recommended use	Not recommended use
Mineral glass	At works practically with all substances	At works with ammonia and its 25% water solution, aqua regia, potassium hydroxide, sodium hydroxide, hydrofluoric acid.
Plexiglas	At works with ethyl alcohol, weak solutions of hydrochloric, nitric, sulfuric, phosphoric, acidic acids, potassium hydroxide, sodium hydroxide, oil products.	At works with concentrated solutions of acids and alkalis, acetone, aniline, benzene, carbon tetrachloride, xylene, toluene and other solvents
PC	At works with acidic, phosphoric, fluorosilicic acids, nitric acid (up to 50% solution), sulfuric acid (up to 75% solution), sodium hydroxide solution (up to 20%), alcohols and oil products	At works with acetone, ammonia and its water solutions, aqua regia, benzene, xylene, chloroform, nitric and chromic acids.
CA	At works with gasoline, oils, weak acids (formic, oleic, tartaric), xylene, some alcohols, glycerine.	At works with strong acids, including acetic, alkalis, acetone, ethyl alcohol, toluene, aniline, ethers.

The material properties are given at 20°C. Because material properties depend on some factors such as temperature, substance nature and concentration etc, the ocular material choice shall be made taking these factors into account. So this table is for reference only.

Advantages of mineral oculars by comparison with all plastic oculars:

- high transparency and distortions absence;
- perfect resistance to scratching and abrasion;
- high surface hardness and chemical resistance;
- possibility to clean with any solvent;
- stability of mechanical and optical properties in wide temperature range.

Advantages of plastic oculars by comparison with all glass oculars:

- unbeaten resistance to impact;
- UV protection;
- resistance to UV exposure and aging;
- resistance to fogging;
- good resistance to abrasion (when coated);
- high safety at use.

Eye protectors selection guide

Hazardous factors/protection	Spectacles	Goggles	Face shields
Protection against single impact – increased robustness (lateral and frontal impact): drop ball test (ball diameter 22 mm, ball mass 43 g, maximum velocity 5.1 m/s, impact energy no more than 0.6J)	✓	✓	✓
Protection against high speed particles (steel ball diameter 6mm, ball mass 0.86 g)			
■ Low energy impact (0.84J, 45 m/s)	✓	✓	✓
■ Medium energy impact (5.9J, 120 m/s)		✓	✓
■ High energy impact (14.9J, 190 m/s)			✓
■ Droplets of liquids		✓	
■ Splashes of liquids			✓
■ Dust		✓	
■ Gases and fine dust particles		✓	
■ Electric arc flash			✓
■ Molten metal splashes and hot solids		✓	✓

Clear oculars conventional notations and use

Ocular designation	Symbol of mechanical strength according to EN166:2002	Ocular material	Application
Y	S	Mineral glass, hardened	Eye protection against single impact – increased robustness
T	S	Mineral glass, three-ply (Triplex)	Eye protection against single impact – increased robustness
PL	F	PMMA (Plexiglas)	Eye and face protection against high speed particles (V = 45 m/s)
CA	F (spectacle) B (goggles and visors)	Cellulose acetate	Eye and face protection against high speed particles (V = 45 m/s or 120 m/s), non-fogging oculars available
PC	F (spectacle) B (goggles and visors) A (visors)	Polycarbonate	Eye and face protection against high speed particles (V = 45 m/s, 120 m/s, 190 m/s), non-fogging oculars available

**The largest Russian manufacturer
of personal protective equipment:**

-  Safety spectacles
-  Corrective protective spectacles
-  Safety goggles
-  Protective face shields
-  Welding helmets
-  Earmuffs
-  Safety helmets
-  Combined PPE
-  Combined PPE for protection
against thermal hazards
-  Liners
-  PAPRs
-  Accessories

OJSC SUKSUN OPTICAL & MECHANICAL PLANT
Personal protective equipment

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