



ЮЖНО-УРАЛЬСКИЙ ЗАВОД  
МАГНИЕВЫХ СОЕДИНЕНИЙ

**Production of magnesium  
sulphate heptahydrate  
 $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$**

**5 years warranty period of storage**

Kuvandyk Town , Russia 2020



# How did we appear?

**The South Ural Magnesium Compounds Plant was established in 2014. The enterprise is a joint project of the Government of the Orenburg Region.**

**The company owns a land plot of 42 thousand m<sup>2</sup> in the industrial zone of Kuvandyk town, Russia. An ore warehouse of 4 thousand m<sup>2</sup>, the main production building with equipment of 9 thousand m<sup>2</sup>**

# The start of production 2016.

The South Ural Magnesium Compounds Plant has started work on the basis of the boric acid workshop that existed until December 31, 2004, which was mothballed and belonged to the South Ural Cryolite Plant. The production and sale of magnesium sulfate has started in the second quarter of 2016.

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Today, the productivity of the enterprise 6000 tons of magnesium sulfate per month.

# Production

The company produces at least 2 types of products (fine-grained and granular), as well as compete with manufacturers in China and Germany. The company becomes competitive not only in Russia, but also become the second leading company with such products in Europe.

Certificate of state registration of agrochemicals No. 438-10-1503-1 (issued by the Ministry of agriculture of Russia). Production technologies of Tomsk Polytechnic University of 2014.

# HOW TO USE MAGNESIUM SULFATE ?



## VEGETABLE

Growing is an Effective fertilizer. Increases the yield, improves the quality of consumer.



## COSMETOLOGY

Sedative, the basis of therapeutic baths. Reduces stress and fatigue



## CONSTRUCTION

Additive for road surfaces. Component of magnesia cement



## CHEMICAL INDUSTRY

Production of household chemicals. Used in the pulp and paper industry

# Application of Magnesium Sulphate in the production of V<sub>2</sub>O<sub>5</sub>.

- In the production of vanadium products, namely the preparation of vanadium from vanadium slag and other materials that contain vanadium, it is recommended to use magnesium sulfate. Magnesium sulfate reduces manganese content and increases the content of the lead component (vanadium oxide (V)) in the final product.
- In the production of V<sub>2</sub>O<sub>5</sub> by lime-sulfuric acid technology from vanadium slag and other materials using an oxidative roasting, leaching and precipitation of magnesium sulphate solution is used for final product purification of manganese. During this process occurs the substitution of impurities that contain in the freshly precipitated sediment V<sub>2</sub>O<sub>5</sub>, o magnesium cation. It results in improving the quality of the finished product and increasing of content of lead component.
- This is achieved by the fact that before finishing by washing with water, the precipitate was washed with a solution of magnesium sulfate with concentration 2-7 g/l of Mg<sup>2+</sup> cation at L:S = 2-7, where L: S is the ratio of fluid mass to the mass of solids in the slurry.
- Processing of concentrate on the proposed scheme allows to obtain products with a manganese content to meet the requirements of international contracts for technical vanadium oxide. It also allows to use it for smelting of low-Mg ferrovanadium and special alloys.

# The role of magnesium batteries

## MAGNESIUM

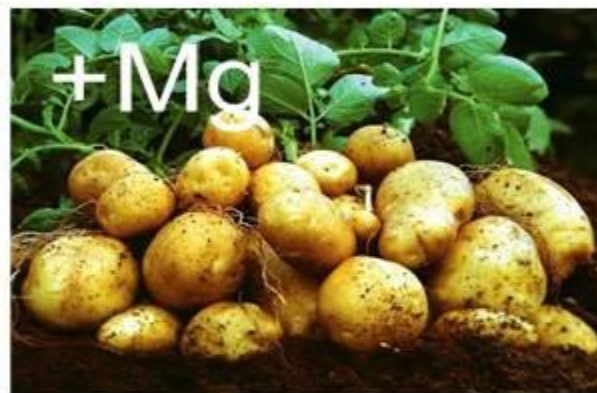
- It is a part of the chlorophyll molecule and is directly involved in photosynthesis.
- Accelerates the appearance of carbohydrates
- Participates in protein synthesis
- It affects the metabolism and construction of plant tissues, helps to absorb P and Ca.



# The role of magnesium batteries

## magnesium

- This helps the appearance of sugars.
- It affects the dynamics of root growth and assimilation of nutrients from the soil.
- Without magnesium, the plant cannot grow productively.
- Contributes to a better maturation of the fruit. It is a part of the spare substance of the seed-fitin.





# The role of the elements magnesium

## Physiological process

10% of magnesium is part of the chlorophyll molecule and takes part in photosynthesis.



formula of chlorophyll

With a deficiency of magnesium, the concentration of chlorophyll in the plant decreases, and chlorosis is forming.



# Our products of "Magnesium Sulfate"

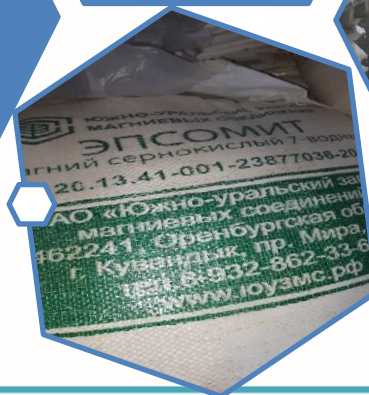


Packing  
from 20 g

Bags of 25  
kg, up to  
50 kg.

All  
products  
are marked

MD 870  
kg; up to  
1tn.



# "Magnesium sulfate" in cosmetology

ДЕЙСТВИЕ  
МАГНИЯ



**СОЛЬ EPSOM**

ИМЕЕТ УНИКАЛЬНУЮ ЦЕННОСТЬ, ПОСКОЛЬКУ СОДЕРЖИТ БОЛЬШОЕ КОЛИЧЕСТВО МАГНИЯ И СЕРЫ.

Effects of magnesium:  
Reduces stress  
Helps with depression  
Normalizes the actions of the vegetative system  
Regulates heart activity  
Normalizes blood pressure

Effects of sulfur:  
Improves metabolism and reduces excess weight  
Removes toxins

Joint-stock company "South Ural plant of magnesium compounds»

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