



HIGH-PERFORMANCE POTASSIUM SULPHATE

**for Industrial Applications
and beyond**



K+S Minerals and Agriculture - A reliable partner for many industries

We produce, refine, and supply, natural raw materials for numerous industrial applications. Our products and services keep your production running.

Everything from a single source

We want to help you get the most out of your industrial processes. With 130 years of experience, we deliver not only Potassium, Magnesium and Sodium products, but also effective solutions. This makes us a unique partner in the industry. Would you like to know how we can be a benefit to your production with our minerals?

Reliable partner with global logistics network

Every year, we transport an average of more than 50 million tonnes of goods, using various modes of transportation.



Want to learn more?

Detailed information on all K+S fields of expertise can be found at: www.kpluss.com

Or feel free to get in touch:

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Potassium Sulphate - The alternative raw material for Potassium ions, practically chloride-free

Potassium Sulphate product features in general

- A natural product from our own raw material base, produced without sulphuric acid
- Very low chloride content
- Neutral to slightly basic pH value in aqueous solution
- Special industrial grades
- Mined in Germany

Our Product Qualities

Product: Potassium Sulphate 95 % K_2SO_4

Granulometry: <0.8mm: 98 %

Appearance: White crystals, occasionally light grey, free-flowing

Bagging: 25 kg Bags, Big Bags, Bulk

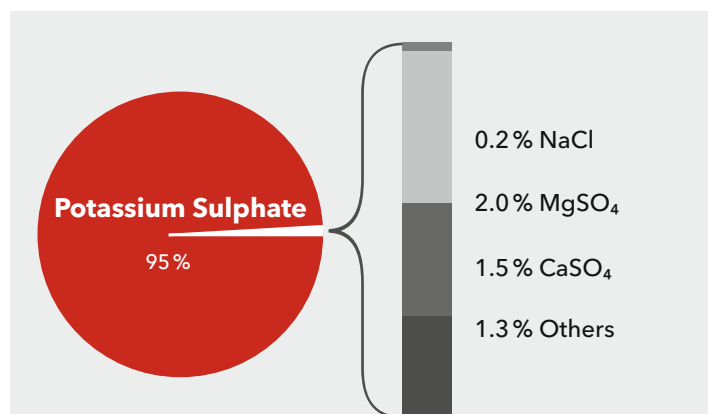
Product: Potassium Sulphate approx. 99.6 % K_2SO_4 technically pure

Potassium Sulphate approx. 99.9 % K_2SO_4 chemically pure

Granulometry: <0.5 mm: 97 %

Appearance: White crystals, free-flowing

Bagging: 25 kg Bags, Big Bags



Composition on the example of Potassium Sulphate 95 %

Our product qualities



Potassium Sulphate 95 %



Potassium Sulphate 99.6 % technically pure



Potassium Sulphate 99.9 % chemically pure

Whether as an additive or raw material, our Potassium Sulphate fulfils the high-quality requirements of the industry. Because it is produced without the use of sulphuric acid, our Potassium Sulphate is a practically pH-neutral end product without the addition of other regulating substances.

Potassium Sulphate is one of the most effective and most frequently used additives in the processing of anhydrite screed, special plaster and gypsum plasterboard in order to achieve faster setting and faster load-bearing capacity.

It is used as a raw material to produce Potassium Peroxodisulphate in an electrolytic production process in the chemical industry.

Potassium Sulphate is also used in the manufacture of fire extinguishing powders, in the fireworks and explosives industry and as a nutrient salt in biotechnology.

Our high purity products 99.6% K_2SO_4 technically pure and 99.9% K_2SO_4 chemically pure have a very low chloride content and are used for a variety of applications.

For example, Potassium Sulphate approx. 99.6% K_2SO_4 technically pure provides an optimal nutrition of micro-organisms for insulin production. Potassium Sulphate approx. 99.9% K_2SO_4 chemically pure has a neutral or only weakly alkaline pH value in aqueous solutions.

We produce, refine, and supply, natural raw materials - for numerous industrial applications

Our Potassium Sulphate is characterized by high quality and purity as well as a low chloride content. We produce with completely naturally extracted minerals from our own raw material base.



OIL AND GAS INDUSTRY (DRILLING)

Potassium Sulphate is used in water based drilling fluid to stabilize the borehole during drilling process.



VISCOSITY CONTROLLING & INCREASING

Potassium Sulphate is used as an additive for viscosity controlling (deodorants, body creams) and viscosity increasing (shampoo, anti-aging compounds). It is used as a Potassium source in health care and cosmetic products (mineral creams).

BUILDING AND CONSTRUCTION MATERIALS

Potassium Sulphate is one of the most effective and most frequently used additive for anhydrite floors and lightweight boards, special types of gypsum and plasterboards.



BIOTECHNOLOGY

Potassium compounds such as Potassium Sulphate are used as micronutrients in biotechnological procedures. Typical areas of application are yeast production as well as fermentation reactions to produce proteins, enzymes, ethanol, vitamins, etc.



POTASSIUM PEROXODISULPHATE

Potassium Sulphate serves as a raw material for the manufacture of Potassium Peroxodisulphate in electrolytic processes. Potassium Peroxodisulphate is used as an initiator for polymerisations in emulsions or in solutions.



PAINTS & PIGMENT PRODUCTION

In pigment production, Potassium Sulphate is used in particular as a Potassium component for iron blue pigments to adjust the depth of colour. Furthermore Potassium Sulphate is used in the dyestuff production to bind and extract organic dyes within dye production process.



FURTHER PROCESSES

Potassium Sulphate serves as a basic material for various processes in industrial and commercial applications.



TITANIUM DIOXIDE

Potassium Sulphate can be used as an auxiliary in the production of titanium dioxide. The high quality of this additive has a positive effect on the quality of the titanium dioxide in terms of particle size and whiteness.



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