



HIGH QUALITY POTASSIUM CHLORIDE

**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, including double counting, 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 Chloride - Starting raw material for inorganic and organic Potassium compounds

Potassium Chloride product features in general

- A natural product
- Low content of secondary salts and heavy metals
- Fully water soluble
- Certified according to DIN ISO 9001
- Mined in Germany

Our Product Qualities

Product: Potassium Chloride 99% KCl

Granulometry: Typically <0.8mm: 99%

Appearance: White crystals, occasionally slightly reddish

Bagging: 25 kg Bags, 1,000 kg Big Bags, Bulk

Whether used as a raw material or as an additive - due to its outstanding properties our Potassium Chloride is successfully used within many different applications.

Potassium Chloride 99% is the raw material for many inorganic and organic Potassium compounds. As raw material for inorganic Potassium compounds (Potassium Nitrate and Potassium Sulphate), carrageenan production, zeolites, paints and pigments, titanium dioxide, electroplating, metallurgy, as component in fire extinguishers, and glass industry.

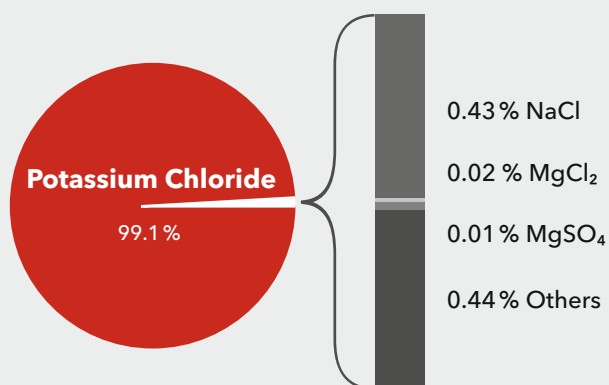
Product: Potassium Chloride 99.3% KCl technically pure
Potassium Chloride 99.9% KCl chemically pure

Granulometry: Typically <0.8mm: 99%

Appearance: White crystals

Bagging: 25 kg Bags

High purity products with particularly low content of secondary salts. A versatile raw material for technical applications as biotechnology, water softening, metallurgy, cosmetic or as an ingredient in brazing baths.



Composition on the example of Potassium Chloride 99%

Our product qualities



Potassium Chloride 99%



Potassium Chloride 99.3% technically pure



Potassium Chloride 99.9% chemically pure

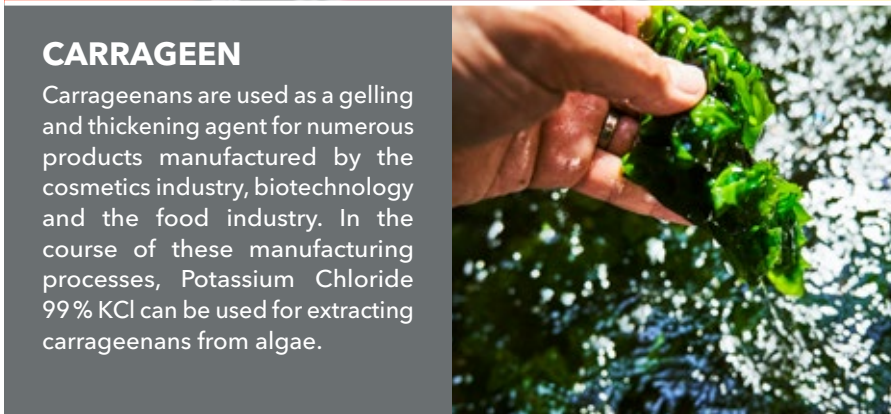
We produce, refine, and supply, natural raw materials - for numerous industrial applications

With over 99% purity, is characterised by its outstanding effectiveness and, as a natural product, is particularly environmentally friendly.



SALT BATH BRAZING

This technique is particularly suited for the production of components with inaccessible solder joints. One area of application of Potassium Chloride is the production of heat exchangers by flux bath soldering.



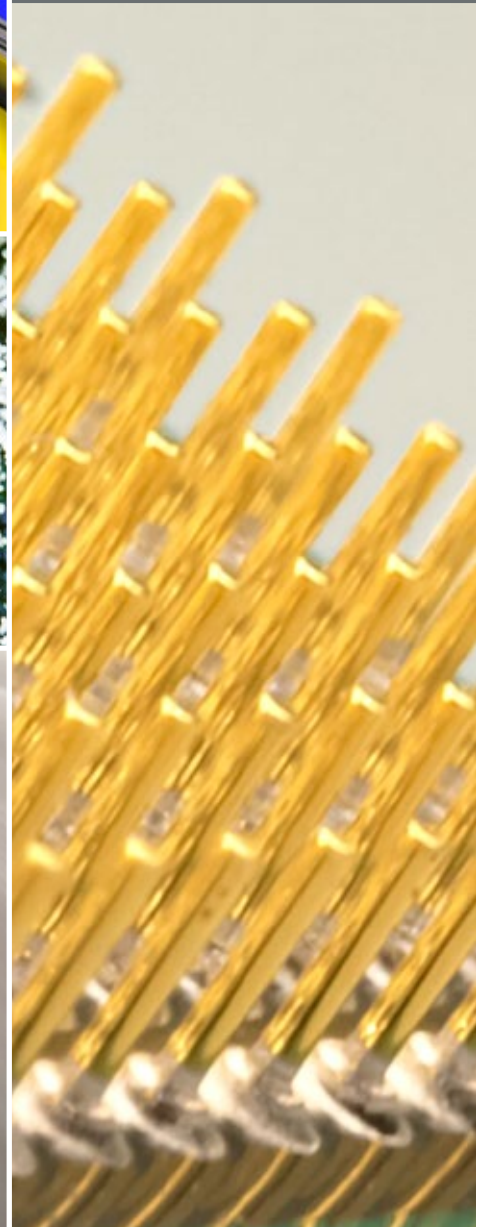
CARRAGEEN

Carrageenans are used as a gelling and thickening agent for numerous products manufactured by the cosmetics industry, biotechnology and the food industry. In the course of these manufacturing processes, Potassium Chloride 99% KCl can be used for extracting carrageenans from algae.



METAL

Potassium salts play an important role in metallurgic processes. Potassium Chlorides are used for surface treatment and galvanizing, as hardening and soldering salts, and as smelting salts in foundry chemistry.





BIOTECHNOLOGY

Potassium Chloride is used as micronutrient in biotechnological procedures. Typical areas of application are yeast production as well as fermentation reactions for the production of proteins, enzymes, ethanol, vitamins, etc.

ELECTROPLATING

Potassium Chloride is used as a conducting salt in weaker acidic solutions for electro-galvanizing. This helps to achieve higher voltage, thereby reducing the immersion time of the galvanized parts.



TITANIUM DIOXIDE

In the titanium dioxide production, mineral salts are used as additives. The use of auxiliary materials such as Potassium Chloride has positive effects on particle size and brightness.

ZEOLITES

In the synthetic production of zeolites (crystalline aluminosilicates) Potassium Chloride is used for adjusting pore size. Zeolites are used as molecular sieves and among other purposes are applied in the purification of natural gas.



FURTHER PROCESSES (POTASSIUM CHLORIDE)

Potassium Chloride serves as a basic material for other diverse processes in industrial and commercial applications.



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