



**PRODUCT INFO  
& DATASHEET**

# **MAGNESIUM SULPHATE ANHYDROUS 33% MgO**

*Typ. 98% MgSO<sub>4</sub> calculated with reference to the anhydrous substance*

*Origin: EU*

## **PRODUCT DESCRIPTION**

nearly white salt, hygroscopic  
combined nomenclature

28,332,100

## **CHEMICAL ANALYSIS**

	<u>Typical</u>	<u>W</u>
Magnesium Oxide (MgO)	98.4	%
Potassium Sulphate (K <sub>2</sub> SO <sub>4</sub> )	0.6	%
Calcium Sulphate (CaSO <sub>4</sub> )	0.5	%
Others, mainly H <sub>2</sub> O	0.5	%

## **GRANULOMETRY**

	<u>Typical</u>	<u>W</u>
< 0.8 mm	98	%
d50 (mm)	0.33	

Bulk density ca. 1,300 kg/m<sup>3</sup>

Angle of repose ca. 31°

Molecular weight 120.37 g/mol

Density 2.7 g/cm<sup>3</sup> 20° C.

Solubility in water w (MgSO<sub>4</sub>) = 26.3% at 20° C. (68° F.)

Readily soluble, to avoid clotting, the salt should always be intensively mixed into water and not vice versa.

## **APPLICATION**

High concentrated magnesium and sulphur fertilisers, pulp industry, manufacture of detergents, particularly for washing machines, ABS plastics, chemical industry, manufacture of other magnesium compounds or pure magnesium sulphate solutions, sewage treatment, dye works, alumina beneficiation, rayon and textile industries, building and refractory industries, fine extinguishing substances, adhesives.

## **PACKING**

- 25 kg & 50 kg bags

- big bags

- bulk

## **SPECIAL CHARACTERISTICS**

As a highly concentrated magnesium fertiliser (straight application, magnesium source in compounds, liquid fertiliser), in the chemical, ceramic, textile and building material industries, for the manufacture of other magnesium compounds or pure magnesium sulphate solutions, in the pulp industry as a source for Mg(HSO<sub>3</sub>)<sub>2</sub> for the magnesite and similar processes, as well as a stabilizer for cellulose in O<sub>2</sub> and Peroxide-bleaching processes, as an additive in feed stuffs (mineral feed). Magnesium Sulphate Anhydrous is preferred over Kieserite and Magnesium Sulphate Heptahydrate when a high-grade product is required. Furthermore, Magnesium Sulphate Anhydrous is used when a higher dissolution velocity than that of Kieserite is needed and the degree of purity may be somewhat inferior to that of Magnesium Sulphate Heptahydrate. These requirements may apply e.g. to sewage treatment, dye works, the metallurgical, rayon, textile, cellulose, building and refractory industries, as well as to the manufacture of detergents, particularly for washing machines.

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