

# Magnesium hydroxide powder for environmental applications

## MagTreat® — P

### Description

A fine white powder of magnesium hydroxide. Produced from selectively mined natural magnesium hydroxide by milling and classifying.

### Application

The product is intended for manufacturing of aqueous suspension recommended for acid neutralization, wastewater treatment, heavy metals precipitation, reduction of COD and phosphates, prevention of odor and corrosion in sewage systems, whey neutralization, flue gas desulphurization in power plants and marine scrubber systems (EGCS).

### Properties

Parameter	Specification	Typical
MgO/Mg(OH) <sub>2</sub> , %, min.	62.0/89.9	64.6/93.7
CaO, %, max.	3.0	2.3
SiO <sub>2</sub> , %, max.	3.0	1.6
Fe <sub>2</sub> O <sub>3</sub> , %, max.	0.3	0.12
*SO <sub>4</sub> <sup>2-</sup> , %, max.	0.01	0.001
*Cl, %, max.	0.01	0.001
Bulk density, kg/m <sup>3</sup> , min.	300	390
Humidity, %, max.	0.5	0.3
Specific surface area*, m <sup>2</sup> /g	9–11	10
Median particle size D <sub>50</sub> , microns:		
Laser diffraction	5.0–6.0	5.5
Sedimentation technique	2.0–3.0	2.5

\* — is determined once in 6 months

### Equivalents on 100% dry solids basis

Na <sub>2</sub> CO <sub>3</sub> (soda ash)	= 1.0 mt equivalent to 0.55 mt Mg(OH) <sub>2</sub>
NaOH (caustic soda)	= 1.0 mt equivalent to 0.73 mt Mg(OH) <sub>2</sub>
Ca(OH) <sub>2</sub> (hydrated lime)	= 1.0 mt equivalent to 0.79 mt Mg(OH) <sub>2</sub>

### Storage

The shelf life is limited by moisture pick-up during storage, which is 0.5% max. When stored in dry conditions and with the packaging intact the shelf life is min. 4 months and max. 12 months from the time of delivery. We recommend to check the moisture content before usage if the product is stored for more than 4 months. Opened bags should be resealed immediately.

### Packing

Paper bags with polyethylene liner, big bags.

### Safety

Refers to low-hazard substances; fire- and explosion-proof, non-toxic.

### Transportation

Transported by all modes of transport in accordance with the rules of transportation of goods that operate in this mode of transport.