

# Magnesium hydroxide suspension for environmental applications

## MagTreat® — S 53%

### Description

Concentrated, stabilized magnesium hydroxide aqueous suspension. Produced from selectively mined natural magnesium hydroxide.

### Application

The product is used 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).

	Parameter	Specification	Typical	
<b>Properties</b>	<b>Aqueous Suspension</b>			
	Dry solids, %, min.	50.0	53.0	
	Density, kg/m <sup>3</sup> , min.	1350	1450	
	Viscosity, (Brookfield VT, 100 rpm), cps, max.	400	150	
	Freezing point, °C	0	0	
	<b>On dry solids basis</b>			
	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	
	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			
	<b>Equivalents on 100% dry solids basis</b>	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>	
<b>Storage</b>	Shelf life of suspension is 6 months upon arrival at customer's warehouse. For long term storage periodic agitation of the suspension is necessary. Store at the warehouse/vessel with temperature above the freezing point and below the +35 °C avoiding the direct UV exposure. Do not store product in used IBC's.			
<b>Packing</b>	IBC or in bulk.			
<b>Safety</b>	Refers to low-hazard substances; fire- and explosion-proof, non-toxic.			
<b>Transportation</b>	Transported by all modes of transport in accordance with the rules of transportation of goods that operate in this mode of transport. Avoid the long term transportation of the material at the temperatures above +35 °C.			