

Magnesium hydroxide suspension for environmental applications MagTreat®-S

Description	Application		
Concentrated, stabilized magnesium hydroxide aqueous suspension. Produced from selectively mined natural magnesium hydroxide.	The product is used for acid neutralization, wastewater treatment, heavy metal precipitation, reduction of COD and phosphates, prevention of odor and corrosion in sewage systems, and flue gas desulphurization.		
Properties	Specification		
	Typical		
	Aqueous Suspension		
	Dry solids, %, min.	60.0	65
	Density, kg/m ³ , min.	1550	1650
	Viscosity, (Brookfield VT, 100 rpm), cps, max.	650	200
	Freezing point, °C	0	0
	On dry solids basis		
	MgO/Mg(OH) ₂ , %, min.	64.0/92.8	64.8/94.0
	CaO, %, max.	2.5	2.1
	SiO ₂ , %, max.	1.5	1.2
	Fe ₂ O ₃ , %, max.	0.2	0.13
	*SO ₄ ²⁻ , %, max.	0.01	0.001
	*Cl ⁻ , %, max.	0.01	0.001
	Specific surface area*, m ² /g	9-11	10
Median particle size D ₅₀ , microns:	5.0-6.0	5.5	
*- is determined once in 6 months			
Equivalents on 100% dry solids basis	CaCO ₃ (calcium carbonate) Na ₂ CO ₃ (soda ash) NaOH (caustic soda) Ca(OH) ₂ (hydrated lime)	= 1,0 mt equivalent to 0,58 mt Mg(OH) ₂ = 1,0 mt equivalent to 0,55 mt Mg(OH) ₂ = 1,0 mt equivalent to 0,73 mt Mg(OH) ₂ = 1,0 mt equivalent to 0,79 mt Mg(OH) ₂	
Storage	Shelf life of suspension is 6 months since manufacturing date. For long term storage periodic agitation of the suspension is necessary. Store at the warehouse/vessel with temperature above the freezing point		
Packaging	IBC or in bulk		
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 operates in this mode of transport		