

## Magnesium hydroxide suspension for environmental applications

### MagTreat® - S10R

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 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).		
<b>Properties</b>	Specification		
	Typical		
	<b>Aqueous Suspension</b>		
	Dry solids, %, min.	60.0	65
	Density, kg/m <sup>3</sup> , min.	1550	1650
	Viscosity, (Brookfield VT, 100 rpm), cps, max.	650	200
	Freezing point, °C	0	0
	<b>On dry solids basis</b>		
	MgO/Mg(OH) <sub>2</sub> , %, min.	62.0/89.9	63.6/92.2
	CaO, %, max.	3.0	2.6
	SiO <sub>2</sub> , %, max.	3.0	1.6
	Fe <sub>2</sub> O <sub>3</sub> , %, max.	0.3	0.15
	*SO <sub>4</sub> <sup>2-</sup> , %, max.	0.01	0.001
	*Cl <sup>-</sup> , %, max.	0.01	0.001
	Specific surface area*, m <sup>2</sup> /g	6-8	7
Median particle size D <sub>50</sub> , microns:			
Laser diffraction	9.0-12.0	10	
Sedimentation technique	5.0-8.0	6.0	
*- is determined once in 6 months			
<b>Equivalents on 100% dry solids basis</b>	Na <sub>2</sub> CO <sub>3</sub> (soda ash) NaOH (caustic soda) Ca(OH) <sub>2</sub> (hydrated lime)	= 1,0 mt equivalent to 0,55 mt Mg(OH) <sub>2</sub> = 1,0 mt equivalent to 0,73 mt Mg(OH) <sub>2</sub> = 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		
<b>Packaging</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 operates in this mode of transport		