



CellGuard® OP

Magnesium Hydroxide Slurry for Pulp Bleaching

DESCRIPTION	CellGuard OP is a concentrated, stabilized aqueous suspension of magnesium hydroxide with excellent flow and storage properties. CellGuard OP is a synthetic chemical produced from magnesium-rich brine and dolomitic lime. It contains lower levels of transition metals as compared to naturally occurring minerals.		
USES	CellGuard OP can be used as a cellulose protector in oxygen bleaching systems, as an alkali source in mechanical and recycled pulp peroxide bleaching, and as a partial substitute for caustic soda in the extraction stage of chemical pulp bleaching.		
CHEMICAL AND PHYSICAL PROPERTIES	<u>Aqueous Suspension</u>	<u>Typical</u>	<u>Specification</u>
	Dry Solids, %	60.0	58.5 min.
	Bulk Density, lb/gal	12.8	12.6 min.
	Mg(OH) ₂ , Contained, lb/gal	7.7	---
	Viscosity, (Brookfield VT, 100 rpm), cps	200	70 - 600
	Freeze Point, °C	0	---
	<u>Dry Solids Basis</u>		
	Mg(OH) ₂ purity, %	98.8	98.6 min.
	Fe, %	0.07	0.14 max
	Mn, ppm	100	120 max.
	Cu, ppm	1	10 max.
	Median Particle Size, microns	3	---
	% Passing 325 mesh	99.9	99.0 min.
EQUIVALENTS	(All Chemicals Shown on 100% basis)		
	MgSO ₄ =	1.00 lb Equivalent to 0.48 lb Mg(OH) ₂	
	NaOH =	1.00 lb Equivalent to 0.73 lb Mg(OH) ₂	
PACKAGING	Martin Marietta Magnesia Specialties offers its magnesium hydroxide slurry products in bulk shipments (railcar and truck) only. Tote and drum quantities can be supplied by Martin Marietta authorized distributors.		
STORAGE	Mild steel vessels. Extended storage requires intermittent mixing and freeze protection.		

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