



# CellGuard® OP

## Magnesium Hydroxide Slurry for Pulp Bleaching

<b>DESCRIPTION</b>	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.		
<b>USES</b>	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.		
<b>CHEMICAL AND PHYSICAL PROPERTIES</b>	<u>Aqueous Suspension</u>	<u>Typical</u>	<u>Specification</u>
	Dry Solids, %	61.0	58.5 min.
	Bulk Density, lb/gal	12.8	12.6 min.
	Mg(OH) <sub>2</sub> , 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) <sub>2</sub> 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.
<b>EQUIVALENTS</b>	<b>(All Chemicals Shown on 100% basis)</b>		
	MgSO <sub>4</sub> =	1.00 lb Equivalent to 0.48 lb Mg(OH) <sub>2</sub>	
	NaOH =	1.00 lb Equivalent to 0.73 lb Mg(OH) <sub>2</sub>	
<b>PACKAGING</b>	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.		
<b>STORAGE</b>	Mild steel vessels. Extended storage requires intermittent mixing and freeze protection.		

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