



MagChem® 50

Light Burned Magnesium Oxide

DESCRIPTION	MagChem 50 is a high purity, light burned magnesium oxide produced from magnesium-rich brine and dolomitic lime. This fine white powder has a very high reactivity index, low bulk density, and excellent flow properties.		
USES	MagChem 50 is well suited for chemical reactions where high reactivity and rapid conversion to magnesium hydroxide are required because of its very high surface area. MagChem 50 has high purity and controlled activity which makes it an excellent magnesium source for the manufacture of many magnesium compounds. MagChem 50 is used in rubber compounding, plastic thickening, filtrate clarification, odor removal, and a variety of selective adsorption processes.		
COMPOSITION		Typical	Specification
	Magnesium Oxide (MgO), % ignited basis	98.2	97.0 min.
	Calcium Oxide (CaO), %	0.8	1.0 max.
	Silicon Oxide (SiO ₂), %	0.35	0.5 max.
	Iron Oxide (Fe ₂ O ₃), %	0.15	0.3 max.
	Aluminum Oxide (Al ₂ O ₃), %	0.10	0.2 max.
	Chloride (Cl), %	0.30	0.5 max.
	Sulfate (SO ₃), %	0.05	0.3 max.
	Loss on Ignition, %	3.5	6.0 max.
PHYSICAL PROPERTIES		Typical	Specification
	Loose Bulk Density, lb/ft ³ (g/cm ³)	24 (0.38)	
	Median Particle Size, micron	3 - 8	
	Surface Area, m ² /g	60	50 min.
	Activity Index, seconds	8	9 max.
	% Passing 100 mesh	100.0	99.9 min.
	% Passing 325 mesh	99.5	99.0 min.
PACKAGING	Martin Marietta Magnesia Specialties offers a variety of packaging options, including bulk (truck and railcar), bags, and bulk sacks. Please contact a sales representative for information on available packaging options.		
STORAGE	Store in dry place. Exposure to moisture may cause caking.		

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