



MagChem® 10

Hard Burned Magnesium Oxide

DESCRIPTION	MagChem 10 grades are high purity, hard burned magnesium oxides with relatively high density and low reactivity and produced from magnesium-rich brine and dolomitic lime. MagChem 10 granular grades are essentially dust free.						
USES	Milled MagChem 10 grades have a combination of low reactivity, high purity and fine particle size, which makes them suitable for the production of magnesium salts, particularly in reactions with strong acids. Milled MagChem 10 grades also find applications in fiberglass, aluminum metal processing, and fuel additives. Screened MagChem 10 products are widely used as a raw material in manufacturing refractories and ceramic products.						
COMPOSITION			<u>Typical</u>		<u>Specification</u>		
	Magnesium Oxide (MgO), %		98.2		97.0 min.		
	Calcium Oxide (CaO), %		0.9		1.0 max.		
	Silicon Oxide (SiO ₂), %		0.4		0.5 max.		
	Iron Oxide (Fe ₂ O ₃), %		0.2		0.3 max.		
	Aluminum Oxide (Al ₂ O ₃), %		0.1		0.2 max.		
	Chloride (Cl), %		0.01		0.02 max.		
	Sulfate (SO ₃), %		0.01		0.02 max.		
	Loss on Ignition, %		0.25		0.5 max.		
	MagChem 10 grades are available in a wide variety of screened and milled sizes from a powder (-325 mesh) to a granular 6 x 16 mesh. Loose bulk densities range from 65 to 120 lb/ft ³ .						
	<u>Screened Grades</u>			<u>Milled Grades</u>			
	<u>Top Size</u>		<u>Bottom Size</u>		<u>Top Size</u>		<u>Median Particle</u>
	<u>Grade</u>	<u>% Passing, min.</u>	<u>% Passing, max.</u>	<u>% Passing, max.</u>	<u>Grade</u>	<u>% Passing, min.</u>	<u>Microns</u>
	6 x 16	98 -6 mesh	10 -16 mesh	10 -16 mesh	-20*	96 -20 mesh	50
	12 x 40	95 -12 mesh	10 -40 mesh	10 -40 mesh	-200	95 -200 mesh	10
	PR 30	96 -16 mesh	15 -100 mesh	15 -100 mesh	-325	96 -325 mesh	10
					-325S	99 -325 mesh	9

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PACKAGING	<p>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.</p> <p>* Bulk carloads and truckloads only.</p>
STORAGE	<p>Store in dry place. Exposure to moisture may cause caking.</p>

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