



# MagChem® 50 SC

## Specialty

## Magnesium Oxide

<b>DESCRIPTION</b>	MagChem 50 SC is a medium reactive magnesium oxide powder formulated for applications requiring maximum consistency in chemical, physical properties, and reactivity.	
<b>USES</b>	MagChem 50 SC is used in manufacturing grain oriented steel for high performance electrical transformers, specialty ceramics and coatings.	
<b>COMPOSITION</b>		<b><u>Specifications</u></b>
	Magnesium Oxide (MgO), %	98.0 min.
	Calcium Oxide (CaO), %	0.60 max.
	Silicon Oxide (SiO <sub>2</sub> ), %	0.50 max.
	Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ), %	0.30 max.
	Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> ), %	0.20 max.
	Chloride (Cl), ppm	130 (± 30)
	Sulfate (SO <sub>4</sub> ), %	0.15 max.
	Sodium (Na), ppm	200 max.
	Potassium (K), ppm	200 max.
	Fluoride (F), ppm	150 max.
	Boron (B), ppm	750 (± 150)
	Carbon (C), %	0.20 max.
	Loss on Ignition, %	2.0 max.
<b>PHYSICAL PROPERTIES</b>		<b><u>Specification</u></b>
	Loose Bulk Density, lb/ft <sup>3</sup> (g/cm <sup>3</sup> )	12 – 30 (0.19 – 0.48)
	Median Particle Size, microns	1.0 max.
	BAT, seconds	45 - 55
	CAA, seconds	(Typical) 54
	Screen Analysis:	
	% Passing 200 Mesh	99.75 min.
	% Passing 325 Mesh	99.5 min.
<b>PACKAGING</b>	Martin Marietta Magnesia Specialties packages this product in 50 pound bags. Please contact a sales representative for information on detailed packaging offerings and specifications.	
<b>STORAGE</b>	Store in dry place. Exposure to moisture may cause caking.	

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