



# MagShield® S Standard Grade Magnesium Hydroxide for Flame Retardant Applications

<b>DESCRIPTION</b>	MagShield S is a chemically precipitated grade of magnesium hydroxide made from magnesium-rich brine and dolomitic lime. It is designed for non-halogen flame retardant applications and can be processed in plastics at higher temperatures than alumina trihydrate.		
<b>COMPOSITION</b>		<b>Typical</b>	<b>Specification</b>
	Magnesium Hydroxide (Mg(OH) <sub>2</sub> ), %	98.7	98.5 min.
	Chloride (Cl), %	0.30	0.35 max.
	Loss on Drying, %	0.36	0.75 max.
	Loss on Ignition, %	31	30.0 min.
<b>PHYSICAL PROPERTIES</b>		<b>Typical</b>	<b>Specification</b>
	Median Particle Size, micron	4.2	3 – 6
	Surface Area, m <sup>2</sup> /g	11	8 - 16
	Specific Gravity	2.36	
	Loose Bulk Density, g/ml	0.40	
	Mohs Hardness	2.5	
<b>PACKAGING</b>	Martin Marietta Magnesia Specialties offers a variety of packaging options, including bags, and bulk sacks. Please contact a sales representative for information on available packaging options.		
<b>STORAGE</b>	Store in a dry location. Exposure to moisture may cause caking.		

NOTICE: THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. ANY RECOMMENDATIONS OR SUGGESTIONS MADE ARE WITHOUT WARRANTY OR GUARANTEE OF RESULTS SINCE CONDITIONS OF HANDLING AND OF USE ARE BEYOND OUR CONTROL; WE THEREFORE, ASSUME NO LIABILITY FOR LOSS OR DAMAGE INCURRED BY FOLLOWING THESE SUGGESTIONS. SELLER WARRANTS ONLY THAT THIS PRODUCT WILL MEET THE SPECIFICATIONS SET FORTH. ANY OTHER REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED, IS SPECIFICALLY DISCLAIMED INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY. SELLERS AND MANUFACTURERS ONLY OBLIGATION SHALL BE TO REPLACE SUCH QUANTITY OF THE PRODUCT PROVED TO BE DEFECTIVE. BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR USERS INTENDED APPLICATION AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE IN TORT, CONTRACT OR UNDER ANY THEORY FOR ANY LOSS OR DAMAGE, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT.

**Martin Marietta Magnesia Specialties, LLC**  
2700 Wycliff Road, Suite 320  
Raleigh, North Carolina 27607 USA  
Phone: (800) 648-7400  
www.magnesiaspecialties.com



MagShield® is a trademark of  
Martin Marietta Magnesia Specialties, LLC

Produced under a Quality Management System certified  
to ISO 9001:2015 by PRI Certification Registrar