



MagShield® UF NB 10 Coated Ultra-Fine Magnesium Hydroxide for Flame Retardant Applications

DESCRIPTION	MagShield UF NB 10 magnesium hydroxide is a chemically precipitated grade of magnesium hydroxide with a median particle size of 1.0 micron and produced from magnesium-rich brine and dolomitic lime. It is designed for critical, non-halogen flame retardant applications such as select wire and cable insulation and other thin section applications. MagShield UF NB 10 has been treated with a magnesium stearate coating that is fully bonded to the magnesium hydroxide to improve dispersion, handling and physical properties of the compounded plastic. There is no free fatty acid present. The stearate coating covers 40% of the MagShield surface allowing for the use of other processing aids.		
COMPOSITION (BEFORE COATING)		Typical	Specification
	Magnesium Hydroxide (Mg(OH) ₂), %	98.8	>98.5 min.
	Loss on Drying, %	0.5	0.75 max.
	Loss on Ignition, %	30.9	30.0 min.
PHYSICAL PROPERTIES (BEFORE COATING)		Typical	Specification
	Median Particle Size, micron	1.0	0.9 – 1.4
	Surface Area, m ² /g	13	9 – 16
	Specific Gravity	2.36	
	Loose Bulk Density, g/ml	0.40	
	Mohs Hardness	2.5	
PACKAGING	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.		
STORAGE	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

8140 Corporate Drive, Suite 220
Baltimore, Maryland 21236 USA
Phone: (800) 648-7400 or (410) 780-5500
Fax: (410) 780-5777
Email: MagChem@martinmarietta.com
www.magnesiaspecialties.com



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

QUALITY SYSTEM
ISO 9001 CERTIFIED