

MagShield® UF NB-10

Coated Ultra Fine Grade Magnesium Hydroxide for Flame Retardant Applications



DESCRIPTION	MagShield® UF NB-10 magnesium hydroxide is a chemically precipitated grade of magnesium hydroxide made from brine and dolomitic lime with a median particle size of 1.0 micron. It is designed for critical, non-halogen flame retardant applications such as 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 other surface treatments to be added if necessary.		
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)			
	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	25 kg (55.1 lb) multi-walled, polyethylene-lined bags and 2,000 lb bulk sacks.		
STORAGE	Store in a dry location.		

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
Phone: 800-648-7400 or 410-780-5500 • FAX: 410-780-5777
Website: www.magnesiaspecialties.com
e-mail: MagChem@martinmarietta.com

5/05 – rev 4/07 la; 3/09, 12/09 hrc; 3/11 ag

Martin Marietta Magnesia Specialties 

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

Copyright © 2011 by Martin Marietta Magnesia Specialties, LLC