



# MagShield® UF Ultra-Fine Grade Magnesium Hydroxide for Flame Retardant Applications

|   |   |                |                      |
|---|---|----------------|----------------------|
| <b>DESCRIPTION</b>                                      | MagShield UF 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. |                |                      |
| <b>COMPOSITION<br/>(BEFORE<br/>COATING)</b>             |   | <b>Typical</b> | <b>Specification</b> |
|   | Magnesium Hydroxide (Mg(OH) <sub>2</sub> ), %   | 98.7           | 98.5 min.            |
|   | Loss on Drying, %   | 0.3            | 0.75 max.            |
|   | Loss on Ignition, %   | 31             | 30.0 min.            |
| <b>PHYSICAL<br/>PROPERTIES<br/>(BEFORE<br/>COATING)</b> |   | <b>Typical</b> | <b>Specification</b> |
|   | Median Particle Size, micron  | 1.0            | 0.9 – 1.4            |
|   | Surface Area, m <sup>2</sup> /g   | 13             | 9 – 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.   |                |                      |

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