**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 stearate coating that is fully bonded to the magnesium hydroxide to improve dispersion, handling and physical properties of the compounded plastic.

<table>
<thead>
<tr>
<th>COMPOSITION (BEFORE COATING)</th>
<th>Typical</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Hydroxide (Mg(OH)₂), %</td>
<td>98.8</td>
<td>&gt;98.5 min.</td>
</tr>
<tr>
<td>Loss on Drying, %</td>
<td>0.5</td>
<td>0.75 max.</td>
</tr>
<tr>
<td>Loss on Ignition, %</td>
<td>30.9</td>
<td>30.0 min.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PHYSICAL PROPERTIES (BEFORE COATING)</th>
<th>Typical</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median Particle Size, micron</td>
<td>1.0</td>
<td>0.9 – 1.4</td>
</tr>
<tr>
<td>Surface Area, m²/g</td>
<td>13</td>
<td>9 – 16</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.36</td>
<td></td>
</tr>
<tr>
<td>Loose Bulk Density, g/ml</td>
<td>0.40</td>
<td></td>
</tr>
<tr>
<td>Mohs Hardness</td>
<td>2.5</td>
<td></td>
</tr>
</tbody>
</table>

**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.