# MagShield® S NB 10
## Coated Standard Grade Magnesium Hydroxide for Flame Retardant Applications

## DESCRIPTION
MagShield S NB 10 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. The fatty acid coating is bonded to magnesium hydroxide and covers 40% of the surface allowing for the use of other processing aids.

## COMPOSITION (BEFORE COATING)
<table>
<thead>
<tr>
<th>Component</th>
<th>Typical</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Hydroxide (Mg(OH)$_2$), %</td>
<td>98.8</td>
<td>98.5 min.</td>
</tr>
<tr>
<td>Chloride (Cl), %</td>
<td>0.26</td>
<td>0.32 max.</td>
</tr>
<tr>
<td>Loss on Drying, %</td>
<td>0.4</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>

## PHYSICAL PROPERTIES (BEFORE COATING)
<table>
<thead>
<tr>
<th>Property</th>
<th>Typical</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median Particle Size, micron</td>
<td>4.5</td>
<td>3 – 6</td>
</tr>
<tr>
<td>Surface Area, m$^2$/g</td>
<td>12</td>
<td>8 - 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.