MagShield® S
Standard Grade
Magnesium Hydroxide for
Flame Retardant Applications

DESCRIPTION
MagShield® S is a chemically precipitated grade of magnesium hydroxide made from brine and dolomite. It is designed for non-halogen flame retardant applications and can be processed at higher temperature than alumina trihydrate in plastics.

COMPOSITION

<table>
<thead>
<tr>
<th>Composition</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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median Particle Size, microns</td>
<td>4.5</td>
</tr>
<tr>
<td>Surface Area, m^2/g</td>
<td>12</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.36</td>
</tr>
<tr>
<td>Loose Bulk Density, g/ml</td>
<td>0.40</td>
</tr>
<tr>
<td>Mohs Hardness</td>
<td>2.5</td>
</tr>
</tbody>
</table>

PACKAGING

25 kg (55.1 lb) multi-walled, polyethylene-lined bags, 1,000 kg (2,204 lb) and 2,450 lb bulk sacks.

STORAGE

Store in a dry location.

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