Magnesium Carbonate is used for...

Product Markets

- Rubber
- Elastomer
- Plastics
- Paint
- Ink
- Paper
- Food Additives
- Animal Feedstuffs
- Agriculture
- Hygiene
- Cosmetics
- Toiletries
- Ceramics & Glass
- Catalysts
- Construction
- Steel Industry

Physical Properties

Trade and Proper Shipping Name: Magnesium Carbonate TT, Magnesium Carbonate TT Food Grade
CAS No.: Various CAS numbers such as 546-93-0, 14457-83-1, 39409-82-0, 23389-33-5, 7760-50-1, 12125-28-9 are used, depending on country, region, area and industrial field with concerned.

Chemical Name: Magnesium Carbonate Hydroxide
Molecular Formula: xMgCO₂ · yMg(OH)₂ · zH₂O (x, y and z are integers)

Molecular Weight: 467.7
Crystalline: Plate crystal
Refractive Index: 1.52 - 1.53
Specific Gravity: 2.1 - 2.2 g/cm³

General Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>TT</th>
<th>White fine powder</th>
<th>White powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk Density</td>
<td>g/cm³</td>
<td>0.20 to 0.25</td>
<td>--</td>
</tr>
<tr>
<td>75µm Residue</td>
<td>%</td>
<td>≤ 0.5</td>
<td>--</td>
</tr>
<tr>
<td>Moisture Content**</td>
<td>%</td>
<td>≤ 2.0</td>
<td>--</td>
</tr>
<tr>
<td>Ignition Loss</td>
<td>%</td>
<td>≤ 54.0 - 56.0</td>
<td>--</td>
</tr>
<tr>
<td>MgO</td>
<td>%</td>
<td>40.0 - 43.0</td>
<td>40.0 - 44.0</td>
</tr>
<tr>
<td>Fe₂O₃ + Al₂O₃</td>
<td>%</td>
<td>≤ 0.10</td>
<td>--</td>
</tr>
<tr>
<td>T-CI</td>
<td>%</td>
<td>≤ 0.15</td>
<td>--</td>
</tr>
<tr>
<td>Insoluble Matter in HCl</td>
<td>%</td>
<td>≤ 0.10</td>
<td>--</td>
</tr>
<tr>
<td>Soluble Matter in Water</td>
<td>%</td>
<td>≤ 1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>CaO</td>
<td>%</td>
<td>≤ 0.60</td>
<td>0.60</td>
</tr>
<tr>
<td>Arsenic (as As₂O₃)</td>
<td>µg/g</td>
<td>--</td>
<td>≤ 4.0</td>
</tr>
<tr>
<td>Heavy Metals</td>
<td>µg/g</td>
<td>--</td>
<td>≤ 30</td>
</tr>
<tr>
<td>Clarity of solution</td>
<td>--</td>
<td>Very slightly turbid</td>
<td></td>
</tr>
</tbody>
</table>

* Japan's Specifications and Standards for Food Additives  ** Measured just after production due to its absorbency

Production Process

Reactor → Aging → Reaction → Filtration → Drying → Milling → Storage → Packing

- Magnesium Hydroxide → Steam → LPG
- Carbon Dioxide

Production facilities of BMC

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