

# Magnesium hydroxide S13

## Product Description

FR's magnesium hydroxide S13 is produced using seawater (magnesium chloride) as a raw material using a fully automated production control and monitoring system, combined with a proprietary homogenized continuous synthesis process. Compared with mineral magnesium hydroxide, it has high purity and less impurities.

Chemical formula:  $Mg(OH)_2$

CAS NO. 1309-42-8

Molecular weight: 58.32

EC/EINECS NO.215-170-3

## Product Features

- High whiteness and stable color
- High purity and no impurities
- High flame retardancy and low smoke emission
- Excellent thermal stability

## Application Areas

- Polymer composite materials
- Coatings and Ceramics
- Synthesis of Hydrotalcite

## Physical and chemical property data

| Chemical Properties            | Unit | Products Standard | Testing Standard |
|--------------------------------|------|-------------------|------------------|
| Magnesium Hydroxide $Mg(OH)_2$ | %    | ≥98.5             | HG/T3607-2007    |
| Calcium Oxide CaO              | %    | ≤0.05             | HG/T3607-2007    |
| Iron Ion Fe                    | %    | ≤0.01             | HG/T3607-2007    |
| Chloride Ion Cl                | %    | ≤0.50             | HG/T3607-2007    |

| Physical Properties             | Unit              | Products Standard | Testing Standard |
|---------------------------------|-------------------|-------------------|------------------|
| Particle Size D50               | μm                | ≤3.5              | GB/T19077-2016   |
| Particle Size D90               | μm                | ≤10               | GB/T19077-2016   |
| Particle Size D97               | μm                | ≤15               | GB/T19077-2016   |
| Specific Surface Area           | m <sup>2</sup> /g | 14-18             | GB/T19587-2017   |
| Density                         | g/cm <sup>3</sup> | 2.3-2.4           | GB/T4472-2011    |
| Bulk Density                    | g/cm <sup>3</sup> | 0.30-0.40         | HG/T3607-2007    |
| Residue on 325-mesh sieve ≥45μm | %                 | ≤0.05             | HG/T3607-2007    |
| Loss on Ignition                | %                 | ≥30               | HG/T3607-2007    |
| Moisture Content                | %                 | ≤1.0              | HG/T3607-2007    |
| Whiteness                       | %                 | ≥97.0             | HG/T3607-2007    |