

Magnesium hydroxide S12-R

Product Description

FR's magnesium hydroxide S12-R 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. The patented silane coating process not only enhances the product's compatibility and dispersibility, but also provides better flame retardant properties.

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
- Fine particle size and even distribution
- High purity and no impurities
- High flame retardancy and low smoke emission
- Excellent thermal stability
- Excellent processing performance

Application Areas

- Wires and cables
- Polymer composite materials
- Coatings and Ceramics

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	≤2.5	GB/T19077-2016
Particle Size D90	μm	≤7.0	GB/T19077-2016
Particle Size D97	μm	≤10.0	GB/T19077-2016
Specific Surface Area	m ² /g	10-15	GB/T19587-2017
Density	g/cm ³	2.3-2.4	GB/T4472-2011
Bulk Density	g/cm ³	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	%	≤0.5	HG/T3607-2007
Whiteness	%	≥97.0	HG/T3607-2007