

SPECIFICATION

Product Name: Magnesium Hydroxide Technical Grade
Chemical Formula: $Mg(OH)_2$
CAS Number: 1309-42-8
Molecular Weight: 58.32 g/mol
Appearance: A white powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification	-	Reaction A of magnesium salts	Reaction A of magnesium salts
Magnesium oxide	%	64.79%	61% to 63%
Calcium oxide	%	Complies	Max. 2.5% +/- 0.5%
Moisture	%	Complies	Max. 1%
Mesh size	-	Complies	200 – 300 mesh
PH Value	%	Complies	9 – 10.5%
Iron	%	Complies	0.05%
Assay	%	93.25%	91% to 95%
Bulk density taped	g/ml	0.407 g/ml	0.40 – 0.60 g/ml
LOI	%	29.23%	28% to 33%

Physical Properties

- Solubility: Insoluble in water. Insoluble in ethanol. Soluble in acid. Insoluble in acetone.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Protect from moisture, excessive humidity, and contamination. Keep the container tightly closed in the original, properly labeled packaging. Store away from strong acids and incompatible materials, and protect from direct sunlight and excessive heat to maintain product quality, free-flowing properties, and stability.

Applications

- Use: Widely used in industrial applications as a flame retardant, acid neutralizing agent, pH adjuster, wastewater treatment chemical, and filler. It is commonly incorporated into plastics, rubber, wire and cable compounds, coatings, adhesives, sealants, paper, and construction materials to improve fire resistance, smoke suppression, and product performance. It is also used in wastewater treatment for pH control and the neutralization of acidic effluents, as well as in chemical manufacturing and other industrial processes.
- Dosage: Depends on the specific process, formulation, and performance requirements.

Packaging

- Standard Packing: 50 Kgs woven pp bag with inner liner or as per customer requirement.
 - Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.
- * Specifications are based on the manufacturer's provided specifications.

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