

SPECIFICATION

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

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Identification	-	Complies	Positive to the test of magnesium and hydroxide salts
Arsenic	PPM	<1 PPM	Max. 4 PPM
Lead	PPM	<1 PPM	Max. 2 PPM
Chloride	%	<0.078%	Max. 0.25%
Alkalies & Soluble salts	-	Complies	Passes test
Calcium Oxide	%	<0.08%	Max. 1.0%
Loss on drying	%	<1.23%	NMT 2.0%
Loss on ignition	%	31.45%	30.0% to 33.0% @800°C
Assay	%	98.65%	95.0% to 100.5%

Physical Properties

- Solubility: Insoluble in water. Insoluble in ethanol. Soluble in dilute acids.

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 container and store away from strong acids and incompatible materials. Protect from direct sunlight and excessive heat to maintain product quality and stability.

Applications

- Use: Widely used as an acidity regulator, pH-adjusting agent, anti-caking agent, and source of magnesium in food, pharmaceutical, and nutraceutical applications where permitted by applicable regulations. In pharmaceutical formulations, it is commonly used as an antacid to relieve excess stomach acid and as an osmotic laxative for the short-term relief of occasional constipation. It is also incorporated into tablets, suspensions (milk of magnesia), powders, and dietary supplements.

- Dosage: Depends on the intended application, patient age, and therapeutic indication. It should be used according to product specifications or as directed by a qualified healthcare professional.

Packaging

- Standard Packing: 25 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.