

SPECIFICATION

Product Name: Magnesium Oxide 99.5% Food Grade (BD 0.70-0.80 gm/ml)
Chemical Formula: MgO
CAS Number: 1309-48-4
Molecular Weight: 40.30 g/mol
Appearance: A White Powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Gives the reaction of Magnesium	Gives the reaction of Magnesium
Calcium	%	0.02	NMT 0.05
Iron	%	0.002	NMT 0.05
Soluble Subs.	%	1.94	NMT 2
Subs. Insoluble in acid	%	0.01	NMT 0.1
Heavy Metal	PPM	20	NMT 30
Arsenic	PPM	3.0	NMT 4
Chloride	%	0.1	NMT 0.25
Sulphate	%	0.1	NMT 1.0
Loss on ignition	%	4.11	NMT 8
Assay (calculated on the ignited basis)	%	99.25	Magnesium Oxide Heavy contains not less than 98.0% and not more than 100.5% of MgO

Bulk density	g/ml	0.70 – 0.80 g/ml
Sieve Analysis	%	Min. 98% passing through #325 Mesh

Physical Properties

- Solubility: Slightly soluble in water. Insoluble in ethanol. Insoluble in acetone. Insoluble in ether. Insoluble in methanol.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture, humidity, and contamination.

Applications

- Use: Widely used in pharmaceutical, nutraceutical, food, feed, and industrial applications.
- Dosage: Depends on Desired elemental magnesium intake, Age and nutritional status, Product formulation, Intended application, Regulatory requirements.

Packaging

- Standard Packing: 25 kg Woven pp bags with inner liner and 100 Grams 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.