

MgO USP-Light

Light Magnesium Oxide

For use in the manufacture of antacid preparation and mineral supplements, and in the production of pharmaceutical grade magnesium derivatives.

Meets the chemical requirements of the U.S. Pharmacopoeia (current edition) for Magnesium Oxide.

<u>Chemical & Physical Analysis</u>	<u>Specification</u>	<u>Typical Value</u>
Magnesium Oxide as MgO (ignited basis)	96.0-100.5%	99.0%
Identification	Positive test for Magnesium	Passed test
Free Alkali	2.0 ml max	< 0.5 ml
Soluble Salts	2.00% max	0.50%
Acid-Insoluble Substances	0.10% max	0.05%
Calcium as Ca	1.10% max	0.15%
Iron as Fe	0.05% max	0.01%
Loss on Ignition	5.0% max	3.0%
Bulk Density (untapped)	0.12-0.33 g/cc	
Tapped Density (10 taps)	0.12-0.33 g/cc	

<u>Additional Information</u>	<u>Specification</u>	<u>Typical Value</u>
Chlorides as Cl *	0.10% max	0.05%
Sulphates as SO ₄ *	0.75% max	0.10%
Arsenic as As *	1.5 ppm max (ICH Q3D)	< 1 ppm
Lead as Pb *	0.5 ppm max (ICH Q3D)	< 0.1 ppm
Particle size: Residue on 325 mesh (wet sieve) *	1.0% max	0.0%

Current ICH Q3D tested and comply

Appearance and description: White to off-white powder, almost insoluble in water. Insoluble in alcohol. Dissolves in dilute mineral acids. (Caution! Exothermic reaction!)

Packaging and storage: Net 15 kg in double polyethylene liner bag. Store in original packaging, in a dry, ventilated space.

Shelf-life under suitable storage conditions: 24 months from date of manufacture. Customer-tailored specifications and other packaging modes are available.

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* - Inspection or field according to specific requests