

# Light MgO

## Pharmaceutical Grade 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 (34th Edition) NF 29 for magnesium oxide.

Chemical Analysis	Specification	Typical Value
Identification	positive test for Magnesium	
Magnesium Oxide as MgO (ignited basis)	96.0-100.5%	99.0%
Calcium as Ca	1.10% max	0.15%
Iron as Fe	0.05% max	0.01%
Heavy metals as Pb	20 ppm max	<< 20 ppm
Lead as Pb	4 ppm max	<< 0.1 ppm
Arsenic as As	3 ppm max	< 1 ppm
Chloride as Cl	0.10 % max	0.05%
Sulphate as SO <sub>4</sub>	0.75 % max	0.10%
Free Alkali and Soluble Salts	2.0 ml max	< 0.5ml
Acid Insoluble substances	2.0% max	< 0.5%
Loss on ignition	0.1% max	0.05%
	5.0% max	3.0%

Physical Properties	Specification	Typical Value
Tapped Density (10 taps)	0.12-0.33 g/cc	
Particle size: Passes 325 mesh (wet sieve)	99.0% min	100%

**Appearance and description:** Free flowing white powder, almost insoluble in water. Insoluble in alcohol. Dissolves in dilute mineral acids. (Caution! Exothermic reaction!)

**Packaging and storage:** Net 15 kg in multiwall paper bags with separately sealed moisture proof inner polyethylene bag or big bags. Store in original packaging in a dry, ventilated space.

**Shelf-life under suitable storage conditions:** 18 months from date of manufacture. Custom-tailored specifications and other packaging modes are available.

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