

DC

## Pharmaceutical Grade Granular Magnesium Oxide

For use in the manufacture of mineral supplements, tablet-form antacid preparations and in the production of pharmaceutical grade magnesium derivatives. Meets the chemical requirements of the U.S. Pharmacopoeia (25th Edition), British Pharmacopoeia (2003), and European Pharmacopoeia (Fourth Edition) for magnesium oxide.

Chemical Analysis	Specification	Typical Value
Magnesium Oxide as MgO (ignited basis)	98% - 100.5%	99.0%
Calcium as CaO	1.0% max.	0.15%
Iron as Fe	0.05% max.	0.01%
Heavy metals as Pb	20 ppm max.	<< 20 ppm
Lead as Pb	10 ppm max.	<< 0.3 ppm
Arsenic as As	3 ppm max.	< 1 ppm
Chloride as Cl	0.1% max.	0.05%
Sulphate as SO <sub>4</sub>	0.75% max.	0.1%
Soluble salts	1.0% max.	< 0.5%
Acid insolubles	0.1% max.	0.05%
Loss on ignition (900°C) (BD/EP)	8.0% max.	5.0%
(800°C) (USP)	10% max.	5%

Physical Properties	Specification	Typical Value
Bulk density (tapped)	0.90 - 1.20 g/cc	1.10 g/cc
Particle size:		
ASTM mesh		
+30 mesh	8-20%	12%
-30 +60 mesh	60-80%	71%
-60 +100 mesh	5-25%	14%
-100 mesh	1-8%	3%

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

**Packaging and storage:** Net 50 kg in cartons with polyethylene inner bag, net 25 kg in multiwall paper bags with separately sealed inner polyethylene bag, or big bags of 500 kg. Store in original packaging in a dry, ventilated space. Shelf-life under suitable storage conditions: 3 years from date of manufacture.

Custom-tailored specifications and other packaging modes are available