

Technical Data Sheet

DC USP

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 current for magnesium oxide.

Chemical Analysis

Magnesium Oxide as MgO (ignited basis)
Identification
Free Alkali
Soluble Salts
Acid-Insoluble Substances
Calcium as Ca
Heavy metals as Pb
Iron as Fe
Loss on Ignition
Chlorides as Cl
Sulphates as SO₄
Arsenic as As
Lead as Pb

Specification

96.0-100.5%
Positive test for Magnesium
2.0 ml max
2.00% max
0.10% max
1.10% max
20 ppm max
0.05% max
10.0% max
0.1% max
0.75% max
3 ppm max
0.2 ppm max

Typical Value

99.0%
< 0.5 ml
< 0.50%
0.05%
0.15%
< 20 ppm
0.01%
5.0%
0.05%
0.10%
< 1 ppm
< 0.2 ppm

Physical Analysis

Bulk Density (untapped)
Tapped Density (1000 taps)
Particle size:
ASTM mesh

Specification

0.85-1.05 g/cc
0.90-1.20 g/cc
8.0-20.0%
60.0-80.0%
5.0-25.0%
1.0-8.0%

Typical Value

0.95 g/cc
1.10 g/cc
12.0%
71.0%
14.0%
3.0%

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

Packaging and storage: Net 25 or 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 or 600 kg. Store in original packaging, in a dry, ventilated space.

Shelf-life under suitable storage conditions: 3 years from date of manufacture. Customer-tailored specifications and other packaging modes are available.

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