

Technical Data Sheet

DC

Granulated Magnesium Oxide

Distributed by:
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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 EP, USP, FCC Pharmacopoeias and E530 for magnesium oxide.

Chemical Analysis

Magnesium Oxide as MgO (ignited basis)

Identification

Appearance of solution

Soluble Salts

Free Alkali

Acid Insoluble

Chloride as Cl

Sulphate as SO₄

Arsenic as As

Calcium as CaO

Calcium as Ca

Iron as Fe

Heavy metals as Pb-USP

Heavy metals as Pb-EP

Loss on ignition

Lead as Pb

Physical Properties

Bulk Density(untapped, loose)

Bulk Density(tapped)

Particle size: ASTM mesh

+30 mesh

-30 +60 mesh

-60 +100 mesh

-100 mesh

Specification

98.0-100.5%

positive test

pass test

2.0 % max

2.00 ml

0.1 % max

0.1 % max

1.00 % max

3 ppm max

1.50% max

1.10% max

0.05% max

20 ppm max

30 ppm max

5.0% max

0.2 ppm max

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

99.0%

< 0.5%

< 0.5ml

0.05%

0.05%

0.10%

< 1 ppm

0.15%

0.15%

0.01%

<< 20 ppm

<< 30 ppm

4.5 %

<< 0.1 ppm

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, 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 / 600 kg. Store in original packaging, in a dry, ventilated space.

Shelf-life under suitable storage conditions: 2 years from date of manufacture. Customer-tailored specifications and other packaging modes are available.

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