

Technical Data Sheet

HA4 USP Magnesium Oxide

For use in the manufacture of antacid preparations 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.

Chemical & Physical Analysis

Magnesium Oxide as MgO (ignited basis)

Identification

Free Alkali

Soluble Salts

Acid-Insoluble Substances

Calcium as Ca

Iron as Fe

Loss on Ignition

Bulk Density (untapped)

Specification

96.0-100.5%

Positive test for Magnesium

2.0 ml max

2.00% max

0.100% max

1.10% max

0.05% max

10.0% max

0.25-0.65 g/cc

Typical Value

99.5%

Passed Test

< 0.5 ml

< 0.30%

0.020%

0.10%

0.025%

2.0%

0.40 g/cc

Additional Information

Chlorides as Cl *

Sulphates as SO₄ *

Arsenic as As *

Lead as Pb (tested once a month) *

Residue on 325 mesh (wet sieve) *

Specification

0.10% max

1.00% max

1.5 ppm max (ICH Q3D)

0.3 ppm max

1.0%

Typical Value

0.045%

0.10%

< 1 ppm

< 0.3 ppm

0.2%

Current ICH Q3D tested and comply

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

Packaging and storage: Net 25 kg in multiwall paper bags with separately sealed moisture proof inner polyethylene bag. Store in dry ventilated space in original packaging.

Shelf-life under suitable storage conditions: 4 years from date of manufacture. Customer-tailored specifications and other packaging modes are available.

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* - Inspection or field according to specific requests