

Technical Data Sheet

Distributed by:
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HA Magnesium Oxide Pharmaceutical Grade

Applications: Antacid preparations, mineral supplements, production of pharmaceutical grade magnesium derivatives, food additive as an anti-caking, free-flowing agent, color retention agent, desiccant, and pH modifier.

HA meets the requirements of U.S. Pharmacopoeia (37th Edition - NF 32)."

Chemical Analysis

Magnesium Oxide as MgO (ignited basis)

Specification

96.5-100.5%

Typical Value

99.2%

Identification

Positive test for Magnesium

Free Alkali

2.0 ml max

< 0.5 ml

Soluble Salts

2.00% max

< 0.50%

Acid-Insoluble Substances

0.10% max

0.05%

Calcium as Ca

1.10% max

0.10%

Heavy metals as Pb

20 ppm max

< 20 ppm

Iron as Fe

500 ppm max

150 ppm

Loss on Ignition

10.0% max

2.0%

Mercury as Hg

300 ppb max

< 100 ppb

Arsenic as As

0.3 ppm max

< 0.2 ppm

Lead as Pb

0.3 ppm max

< 0.1 ppm

Chlorides as Cl

0.14% max

0.06%

Sulphates as SO₄

0.30% max

0.10%

Physical Analysis

Specification

Typical Value

Bulk Density (untapped)

0.25-0.60 g/cc

0.48 g/cc

Particle size:

Residue on 325 mesh (wet sieve)

25.0% max

10.0%

Appearance and description: White powder, almost insoluble in water and alcohol.

Dissolves in dilute mineral acids (Caution! Exothermic reaction!). HA is a sieved product.

Packaging and storage: Net 25 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: 3 years from date of manufacture.
Customer-tailored specifications and other packaging modes are available.

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Manufacture: Dead Sea Bromine Company Ltd/Magnesia SBU (Dead Sea Periclase)