

PHRA50 USP/EP

Active Magnesium Oxide

Active magnesia for use in the manufacture of rubber and plastic item for medical purposes as well as for mineral supplements and as food additive for color retention and PH modification and the production of pharmaceutical grade magnesium derivatives.

Meets the chemical requirements of USP & EP Pharmacopoeias (current edition) for Magnesium Oxide.

Chemical & Physical Analysis

Magnesium Oxide as MgO (ignited basis) (USP)
 Magnesium Oxide as MgO (ignited basis) (EP)
 Identification
 Solution S (EP)
 Appearance of Solution (EP)
 Free Alkali (USP)
 Soluble Salt/Substances
 Acid-Insoluble Substances
 Chlorides as Cl (EP)
 Sulphates as SO₄ (EP)
 Arsenic as As (EP)
 Arsenic as As
 Calcium as Ca (USP)
 Calcium as Ca (EP)
 Iron as Fe (USP)
 Iron as Fe (EP)
 Loss on Ignition (USP)
 Loss on Ignition (EP)
 Bulk Density (untapped)
 Tapped Density (10 taps)
 Particle Size: residue on 325 mesh (wet sieve)

Specification

96.0-100.5%
 98.0-100.5%
 Positive test for Magnesium
 To pass test
 To pass test
 2.00 ml max
 2.00% max
 0.100% max
 0.10% max
 1.00% max
 4 ppm max
 1.5 ppm max (ICH Q3D)
 1.10% max
 1.50% max
 0.05% max
 0.07% max
 10.0% max
 8.0% max
 0.25-0.65 g/cc
 0.35-0.65 g/cc
 1.0% max

Typical Value

99.2%
 99.2%
 Passed Test
 Passed Test
 Passed Test
 < 0.5 ml
 < 0.5%
 0.05%
 0.05%
 0.10%
 < 1 ppm
 < 1 ppm
 0.10%
 0.10%
 0.01%
 0.01%
 5.0%
 5.0%
 0.40 g/cc
 0.45 g/cc
 0.2%

Additional Information

Lead as Pb (tested once a month) *
 BET Surface Area *

Specification

0.3 ppm max
 40.0-70.0 m²/g

Typical Value

< 0.1 ppm
 50.0 m²/g

Current ICH Q3D tested and comply

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

Packaging and storage: Net 25 kg in double polyethylene bag. Store in original packaging in a dry, ventilated space.

Shelf-life under suitable storage conditions: 18 months from date of manufacture. Customer-tailored specifications and other packaging modes are available.

847-4006-08-08-2018

* - Inspection or field according to specific requests