

# Technical Data Sheet

## MagGran DC Magnesium Oxide granular USP Pharmaceutical Grade

Distributed by:  
**BARRINGTON**  
NUTRITIONALS  
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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 U.S. Pharmacopoeia (current addition) for magnesium oxide.

### Chemical Analysis

Magnesium Oxide as MgO (ignited basis)  
Magnesium as Mg (Calculated)  
Identification  
Free Alkali  
Soluble Salts  
Acid-Insoluble Substances  
Calcium as Ca  
Heavy metals as Pb  
Iron as Fe  
Loss on Ignition  
Chloride as Cl  
Sulphate as SO<sub>4</sub>

### Specification

98.0-100.5%  
59.1-60.6%  
Positive test for Magnesium  
2.0 ml max  
2.00% max  
0.100% max  
1.10% max  
20 ppm max  
500 ppm max  
10.0% max  
1000 ppm max  
0.30% max

### Typical Value

99.0%  
59.5%  
< 0.5 ml  
< 0.50%  
0.050%  
0.15%  
< 10 ppm  
40 ppm  
4.5%  
420 ppm  
0.10%

### Physical Properties

Bulk Density (V10)  
Tapped Density (1000 taps)  
Particle size:  
ASTM mesh  
+20 mesh  
+30 mesh  
-30 +60 mesh  
-60 +100 mesh  
-100 mesh

### Specification

0.90-1.05 g/cc  
0.90-1.20 g/cc  
0%  
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  
0%  
14.0%  
70.0%  
13.0%  
3.0%

### Additional Information:

Arsenic as As 0.1 ppm max < 0.1 ppm  
Lead as Pb 0.1 ppm max < 0.1 ppm  
Chromium as Cr 10 ppm max < 10 ppm  
Selenium as Se 10 ppm max < 10 ppm  
Molybdenum as Mo 10 ppm max < 10 ppm  
Mercury as Hg 0.05 ppm max < 0.05 ppm  
Cadmium as Cd 1 ppm max < 1 ppm  
  
Iodine - Monthly test 10 ppm max < 10 ppm  
Microbial Limit - Monthly test (TAMC, TYMC, E. Coli, Salmonella)

**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 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.

847-9012-01-12-2015



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