Specialty Magnesia Products for Pharmaceuticals

# MgO USP-Light

## Pharmaceutical Grade
## Light Magnesium Oxide

For use in the manufacture of antacid preparation and mineral supplements, and in the production of pharmaceutical grade magnesium derivatives. Meets the chemical requirements of the U.S. Pharmacopoeia (37th Edition) - NF 32 for magnesium oxide.

| Chemical Analysis | Specification | Typical Value |
|---|---|---|
| Magnesium Oxide as MgO (ignited basis) | 96.0-100.5% | 99.0% |
| Identification | Positive test for Magnesium | |
| Free Alkali | 2.0 ml max | < 0.5 ml |
| Soluble Salts | 2.00% max | 0.5% |
| Acid-Insoluble Substances | 0.10% max | 0.05% |
| Calcium as Ca | 1.10% max | 0.15% |
| Heavy Metals as Pb | 20 ppm max | << 20 ppm |
| Iron as Fe | 0.05% max | 0.01% |
| Loss on Ignition | 5.0% max | 3.0% |
| Lead as Pb | 4 ppm max | << 0.1 ppm |
| Arsenic as As | 3 ppm max | < 1 ppm |
| Chlorides as Cl | 0.10% max | 0.05% |
| Sulphates as $SO_4$ | 0.75% max | 0.10% |

| Physical Properties | Specification | Typical Value |
|---|---|---|
| Tapped Density (10 taps) | 0.12-0.33 g/cc | |
| Particle size: | | |
| Residue on 325 mesh (wet sieve) | 1.0% max | 0.0% |

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

**Packaging and storage**: Net 15 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 : Retest Date - 12** months from production date, as long as stored as recommended.

ICL-IP Magnesia Division recommends that the Customer's Quality Control Unit may retest the quality of this material at the given time, for e.g. LOI and Surface Area or Activity, and other relevant parameters, and extend the shelf life of this lot at its own responsibility and liability. Without derogating from the above, such retesting shall not extend ICL-IP's responsibility or liability in any way beyond the Retest Date as defined above.

847-3001-08-05-2014

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