

MgO-FCC

Food Grade Magnesium Oxide

For use as a food additive (E530) for colour retention and pH modification, or as a source of supplemental magnesium. Meets the requirements of the Food Chemicals Codex (Fourth Edition) and European Directive 2000/63/EC.

| Chemical Analysis | Specification | Typical Value |
|---|---------------|---------------|
| Magnesium Oxide as MgO (ignited basis) | 96.0-100.5% | 98.8% |
| Calcium as CaO | 1.5% max. | 0.20% |
| Iron as Fe | 0.05% max. | 0.01% |
| Heavy metals as Pb | 20 ppm max. | < 20 ppm |
| Lead as Pb | 10 ppm max. | << 0.5 ppm |
| Arsenic as As | 3 ppm max. | < 1 ppm |
| Soluble salts | 1.0% max. | < 0.5% |
| Free alkali (as 0.1N H ₂ SO ₄ per gram) | 2.0 ml max. | < 0.5 ml |
| Acid insolubles | 0.1% | 0.05% |
| Loss on ignition (800° C) | 10% max. | 2% |

| Physical Properties | Specification | Typical Value |
|--|---------------------------|------------------|
| Bulk Density (tapped) | | 0.35 – 0.50 g/cc |
| Particle Size: Passes 325 mesh (wet sieve) | 99.0% | 99.8% |
| Surface area | Available in a wide range | |

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 25 kg in heavy duty paper valve bags with coated barrier ply, or big bags. Store in original packaging in a dry, ventilated space. Shelf-life under suitable storage conditions: 2 years from date of manufacture.

Custom-tailored specifications and other packaging modes are available.

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Replaces FMO-96-004 of 01/96