

Magnesium hydroxide powder for environmental applications MagTreat®-P10R

Description

A fine white powder of magnesium hydroxide. Produced from selectively mined natural magnesium hydroxide, by milling and classifying.

Application

The product is intended for manufacturing of aqueous suspension recommended for acid neutralization, wastewater treatment, heavy metals precipitation, reduction of COD and phosphates, prevention of odor and corrosion in sewage systems, phosgene neutralization, flue gas desulphurization in power plants and marine scrubber systems (EGCS).

| | Parameter | Specification | Typical |
|---|--|--|-----------|
| Properties | MgO/Mg(OH) ₂ , %, min. | 62.0/89.9 | 63.6/92.2 |
| | CaO, %, max. | 3.0 | 2.6 |
| | SiO ₂ , %, max. | 3.0 | 1.6 |
| | Fe ₂ O ₃ , %, max. | 0.3 | 0.15 |
| | *SO ₄ ²⁻ , %, max. | 0.01 | 0.001 |
| | *Cl ⁻ , %, max. | 0.01 | 0.001 |
| | Bulk density, kg/m ³ , min. | 500 | 560 |
| | Humidity, %, max. | 0.5 | 0.3 |
| | Specific surface area*, m ² /g | 6-8 | 7 |
| | Median particle size D ₅₀ , microns: | | |
| | Laser diffraction | 9.0-12.0 | 10 |
| | Sedimentation technique | 5.0-8.0 | 6.0 |
| *- is determined once in 6 months | | | |
| Equivalents on 100% dry solids basis | Na ₂ CO ₃ (soda ash) | = 1,0 mt equivalent to 0,55 mt Mg(OH) ₂ | |
| | NaOH (caustic soda) | = 1,0 mt equivalent to 0,73 mt Mg(OH) ₂ | |
| | Ca(OH) ₂ (hydrated lime) | = 1,0 mt equivalent to 0,79 mt Mg(OH) ₂ | |
| Storage | The shelf life is limited by moisture pick-up during storage, which is 0.5% max. When stored in dry conditions and with the packaging intact the shelf life is min. 4 months and max. 12 months from the time of delivery. We recommend to check the moisture content before usage if the product is stored for more than 4 months. Opened bags should be resealed immediately | | |
| Packaging | Paper bags with polyethylene liner, big bags | | |
| Safety | Refers to low-hazard substances; fire- and explosion-proof, non-toxic | | |
| Transportation | Transported by all modes of transport in accordance with the rules of transportation of goods that operates in this mode of transport | | |