



CellGuard® OP

Magnesium Hydroxide Slurry for Pulp Bleaching

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| DESCRIPTION | CellGuard OP is a concentrated, stabilized aqueous suspension of magnesium hydroxide with excellent flow and storage properties. CellGuard OP is a synthetic chemical produced from magnesium-rich brine and dolomitic lime. It contains lower levels of transition metals as compared to naturally occurring minerals. | | |
| USES | CellGuard OP can be used as a cellulose protector in oxygen bleaching systems, as an alkali source in mechanical and recycled pulp peroxide bleaching, and as a partial substitute for caustic soda in the extraction stage of chemical pulp bleaching. | | |
| CHEMICAL AND PHYSICAL PROPERTIES | <u>Aqueous Suspension</u> | <u>Typical</u> | <u>Specification</u> |
| | Dry Solids, % | 60.8 | 58.5 min. |
| | Bulk Density, lb/gal | 12.8 | 12.6 min. |
| | Mg(OH) ₂ , Contained, lb/gal | 7.7 | --- |
| | Viscosity, (Brookfield VT, 100 rpm), cps | 183 | 70 - 600 |
| | Freeze Point, °C | 0 | --- |
| | <u>Dry Solids Basis</u> | | |
| | Mg(OH) ₂ purity, % | 98.7 | 98.6 min. |
| | Fe, % | 0.10 | 0.14 max |
| | Mn, ppm | 87 | 120 max. |
| | Cu, ppm | 2 | 10 max. |
| | Median Particle Size, microns | 2.5 | --- |
| | % Passing 325 mesh | 99.9 | 99.0 min. |
| EQUIVALENTS | (All Chemicals Shown on 100% basis) | | |
| | MgSO ₄ = | 1.00 lb Equivalent to 0.48 lb Mg(OH) ₂ | |
| | NaOH = | 1.00 lb Equivalent to 0.73 lb Mg(OH) ₂ | |
| PACKAGING | Martin Marietta Magnesia Specialties offers its magnesium hydroxide slurry products in bulk shipments (railcar and truck) only. Tote and drum quantities can be supplied by Martin Marietta authorized distributors. | | |
| STORAGE | Mild steel vessels. Extended storage requires intermittent mixing and freeze protection. | | |

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