

Description

A fine white powder of magnesium hydroxide. Produced from selectively mined natural magnesium hydroxide (ground brucite) by milling and classification.

Mineral flame retardant for polymers EcoPiren[®] 5,5CR*

* The median particle size (D_{50}) of this product is 5,5 μ m measured by laser diffraction. When measured by sedimentation technique the D_{50} is 2,5 μ m

Application

.

Used as flame retardant filler for polymeric materials for achieving of high oxygen index (LOI), and for ensuring of the absorption of smoke and toxic gases. Typical application is HFFR and PVC cable jacketing and insulation.

	Parameter		Specification	Typical
1	MgO/Mg(OH) ₂ , %		62.0/89.9 min	63.6/92.2
Properties	CaO, %		3.0 max	2.6
	SiO ₂ , %		3.0 max	1.6
	Fe ₂ O ₃ , %		0.30 max	0.15
	Loss on ignition at 950 °C, %		30-32	31
	Specific gravity**, g/cm ³		2.4	
	Loose Bulk Density, kg/m³		400 min	550
	Humidity, %		0.5 max	0.3
	Particle Size Distribution, µm:			
	Laser diffraction (Malvern Mastersizer)	D ₁₀ D ₅₀ D ₉₇	0.8–1.4 5.0–6.0 85 max	
	Sieve residue 45µm, %		0.1 max	
	Specific Surface Area (BET)***, m²/g		9–11	
	Surface treatment by stearic acid, %		1.2–1.5	
	Whiteness, CIE method		84 min	86
	Product appearance		white powder	
	** reference value for brucite mineral *** measured on request			
Storage	The shelf life is 12 months from the time of delivery, when stored in dry place and while maintaining the tightness of packing. Opened bags should be resealed immediately.			
Packing	Polypropylene 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 operate in this mode of transport.			

www.brucite.plus +7 (495) 789 65 30 info@brucite.plus