



ECOPIREN 3.5C

Product description

Product	Magnesium hydroxide, Produced from selectively mined natural magnesium hydroxide (ground brucite), by milling and classification.
Appearance	A fine white powder
Applications	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.

Physico-chemical properties

Indicator		Specification	Typical Value
MgO/Mg(OH) ₂ , %		min 64.0/92	64.8/94.0
CaO, %		max 2.3	2.1
SiO ₂ , %		max 1.3	1.2
Fe ₂ O ₃ , %		max 0.13	0.11
Loss on ignition at 950°C, %		30 - 32	31
Specific gravity ¹ , g/cm ³		2.4	
Loose Bulk Density, kg/m ³		min 300	350
Humidity, %		max 0.5	0.3
Particle Size Distribution, µm:			
Laser diffraction (Malvern Mastersizer)	D10	0.8 - 1.3	
	D50	3.0 - 4.0	
	D97	14 - 19	
Sieve residue 45 µm:		max 0.1	
Specific Surface Area (BET) ² , m ² /g		9 - 11	
Surface treatment by stearic acid, %		1.2 - 1.5	
Whiteness, CIE method		min 86	88.5
Tint, CIE method		max 0.5	0.1
1- reference value for brucite mineral			
2- measured on request			

Storage, Safety and packing

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.

Polypropylene bags with polyethylene liner, big bags.

Refers to low-hazard substances; fire-and explosion-proof, non-toxic.

Transported by all modes of transport in accordance with the rules of transportation of goods that operates in this mode of transport.