

Mineral flame retardant for polymers Ecopiren® 5,5*

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

Description	A fine white powder of magnesium hydroxide. Produced from selectively mined natural magnesium hydroxide (ground brucite), by milling and classifying.		
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.		
Chemical and Physical properties	Indicator	Typical value	Specification
	MgO/Mg(OH) ₂ %	64,8/94,0	64,0/92,8 min.
	CaO, %	2,1	2,3 max.
	SiO ₂ , %	1,2	1,3 max.
	Fe ₂ O ₃ , %	0,11	0,13 max.
	Loose Bulk Density, kg/m ³	390	300 min.
	Humidity, %	0,3	0,5 max.
	Particle Size Distribution, μm :		
	Laser granulometry (Malvern Mastersizer)	D_{50}	5-6
	Sedimentation technique (Sedigraph)	D_{90}	14-19
	D_{50}	2,0-3,0	
	Surface Area Range, m ² /g	9-11	
	Product appearance	White, fine, homogeneous powder	
Storage	The shelf life is 4 months from date of delivery to the customer's warehouse, when stored in dry place and while maintaining the tightness of packing. After bag is opened material should be used immediately or packed hermetically.		
Packing	Paper bags with polyethylene liner, big bags		
Security	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		