

## Mineral flame retardant for polymers EcoPiren® 15R

### Description

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

### 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 B1/B2 aluminum composite panel core and cable bedding compounds.

### Properties

Parameter	Specification	Typical
MgO/Mg(OH) <sub>2</sub> , %	62.0/89.9 min.	63.6/92.2
CaO, %	3.0 max.	2.6
SiO <sub>2</sub> , %	3.0 max.	1.6
Fe <sub>2</sub> O <sub>3</sub> , %	0.30 max.	0.15
Loss on ignition at 950 °C, %	30-32	31
Specific gravity**, g/cm <sup>3</sup>	2.4	
Loose Bulk Density, kg/m <sup>3</sup>	550 min.	600
Humidity, %	0.5 max.	0.3
Particle Size Distribution, µm:		
Laser diffraction (Malvern Mastersizer)	D <sub>10</sub> 1.0-3.0 D <sub>50</sub> 13.0-17.0 D <sub>97</sub> 120 max.	
Sieve residue 100µm, %	0.2 max.	
Specific Surface Area (BET)***, m <sup>2</sup> /g	5-7	
Product appearance	White powder	

\*\* reference value for brucite mineral

\*\*\* measured on request

### 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

### 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