

BOGIFLAM RT2V

MAGNESIUM HYDROXIDE FLAME RETARDANT

PRODUCT IDENTIFICATION

Chemical Name: Magnesium Hydroxide
Physical Form: White Powder
CAS Number: 1309-42-8

BOGIFLAM RT2V is an inorganic powder that promotes the thermal release of water, can act as an air barrier and supports decomposition of high-temperature oxide materials. It functions as both a flame retardant and a filler without generating corrosive halogen gases or harmful gases. Its higher decomposition temperature can provide better fire-resistance performance than $\text{Al}(\text{OH})_3$.

SPECIFICATION

Properties	Test Methods	Units	Values
Density (25°C)	ASTM D 792	g/cm ³	2.36
Bulk Density	Internal Method	g/mL	0.35 ± 0.05
Mohs Hardness	Mohs Hardness	-	2.5
Refractive Index	ASTM D542	-	1.561 ± 0.20
Decomposition Temperature	ASTM E2550	°C	340
Mg(OH) ₂	-	%	≥85
Whiteness	-	%	≥85
Sieve Residue (45 µm)	-	%	≤0.5
Moisture	Internal Method	%	≤0.5
pH	-	-	9 ± 2
Particle Size (D50)	ISO 13320	µm	5 ± 2
Laser Diffraction Size	ASTM E3340-22	-	800
LOI (1000°C)	ISO 4589	%	30 ± 2
Appearance	-	-	White Powder

APPLICATIONS

- BOGIFLAM RT2V is widely used as a fine flame retardant and filler in PE, PP, PVC, ABS, PS, HIPS, PA, PBT, unsaturated polyester, epoxy, rubber and other polymer materials.
- Applications include electronics, unsaturated polyesters, paints and coatings, PVC conveyor belts, flame-retardant plastic sheets, tarpaulins, PVC wire and cable materials, mining applications, smoke-abatement and antistatic cable-sheath applications and cable accessories. It can provide an effective alternative to aluminium hydroxide.

PACKAGING & STORAGE

- Packaging: 1 pallet: 1,250 kg.
- BOGIFLAM RT2V should be stored away from direct sunlight and heat ($T < 30^{\circ}\text{C}$). The product should be used within 6 months of its production date.

IMPORTANT NOTICE

Please read the Material Safety Data Sheet (MSDS) carefully before using this product.