

BOGIFLAM ZNB

ZINC BORATE SMOKE SUPPRESSANT

PRODUCT IDENTIFICATION

Chemical Name: Zinc Borate
Physical Form: White Powder
CAS Number: 1332-07-6

BOGIFLAM ZNB is an HFFR smoke suppressant with slight solubility in water, good thermal stability, fine particle size and good free-flowing properties. It is widely used in plastics, rubber and coatings and can replace antimony(III) oxide as a synergist in both halogenated and halogen-free systems.

SPECIFICATION

Properties	Test Methods	Units	Values
Zinc Oxide Content	ASTM B633	%	37-40
Boron Trioxide	ASTM D6980	%	45-49
Moisture	ASTM D6980	%	Max. 0.5
Weight Loss (290°C)	ASTM D6980-17	%	Max. 6
Weight Loss (850°C)	ASTM D6980-17	%	Max. 16
Crystallisation Water	ASTM D6980	%	11.5-16.5
Particle Size (d50)	ASTM C136	µm	Max. 5
Dehydration Temperature	ASTM D6980	°C	>290
Appearance	-	-	White Powder

APPLICATIONS

- BOGIFLAM ZNB can be used as a synergistic additive with antimony(III) oxide or other HFFR systems to improve flame-retardant performance and reduce smoke emissions.
- It can replace antimony(III) oxide or halogenated flame retardants and can be used directly in PVC, PE, polyolefin, epoxy, polyamide resins and rubber processing. Other applications include textiles, fibres, flooring, leather, wallpaper and paint.
- BOGIFLAM ZNB can also be used as an anticorrosive, infrared absorber and fungicide for wood preservation.

PACKAGING & STORAGE

- **Packaging:** 1 pallet: 1,250 kg (25 kg multilayer paper bags).
- BOGIFLAM ZNB should be stored away from direct sunlight and heat (T < 30°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.