

ZINC BORATE (ZNB-35S)



Hydrated Zinc Borate | Multifunctional Flame-Retardant & Smoke-Suppressant Synergist

ZNB-35S is a multifunctional additive that acts as a flame-retardant and smoke-suppressant synergist in halogen-containing and halogen-free polymer systems. Its high dehydration temperature enables use in elevated-temperature processing applications.

- High dehydration temperature enables use in elevated-temperature processing applications
- Acts as a multifunctional flame-retardant synergist in both halogen-containing and halogen-free systems.
- Helps reduce smoke generation and supports protective char formation during combustion
- Synergistic with ATH, MDH and other inorganic flame retardants
- Uniform particle size distribution



Chemical and Physical Properties

Appearance (Physical Form)	Powder	Weight Loss (% at 290°C)	max 3
Appearance (Color)	White	Weight Loss (% at 850°C)	max 16
Boron Trioxide Content (%)	46.5-49.5	Water of Crystallization (%)	11.5-16.5
Zinc Oxide Content (%)	37.0-40.0	Particle Size (D50, µm)	max 5
Moisture (%)	max 1	Dehydration Temperature (°C)	min 290



Product Form



Polymer Applications

PVC
Polyolefins (e.g., PE, PP, and EVA)
Epoxyes & Polyesters
Polyamides
Elastomers & Rubbers (incl. TPE)
Acrylics
Phenolics

Application Areas

Wires & Cables
Paints & Coatings
Rubber Applications
Wood
Adhesives
Sealants
Agriculture*

* Zinc Borate for agricultural use is manufactured and delivered from our production facility in Brazil.