



TECHNICAL DATA SHEET

1. Chemical Composition

Product Name	Zinc Borate	Formula	$2\text{ZnO} \cdot 3\text{B}_2\text{O}_3 \cdot 3.5\text{H}_2\text{O}$
Product Model	ZB2335	Primary Product Use	Flame Retardant and Smoke Suppressant
Technical Index		Standard Value	
Appearance		White Powder	
Whiteness %		≥ 95.0	
Zinc Oxide (ZnO) %		36.0~39.0	
Boron Oxide B_2O_3 %		46.0~48.0	
Loss On Ignition %		13.0~14.5	
Surface Water %		≤ 0.5	
Particle Size D_{50} μm		3~5	
Fineness (Residue on 200mesh Sieve)		≤ 0.2	
Pb (ppm)		≤ 20	
Cd (ppm)		≤ 10	



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SHANDONG CHENXU NEW MATERIAL CO., LTD.

Product Name	Zinc Borate	Formula	$2\text{ZnO} \cdot 3\text{B}_2\text{O}_3 \cdot 3.5\text{H}_2\text{O}$
Product Model	ZB35U	Primary Product Use	Flame Retardant and Smoke Suppressant
Technical Index		Standard Value	
Appearance		White Powder	
Whiteness %		≥ 95.0	
Zinc Oxide (ZnO) %		36.5~39.5	
Boron Oxide B_2O_3 %		46.5~49.0	
Loss On Ignition %		13.5~15.0	
Surface Water %		≤ 0.5	
Particle Size D_{50} μm		5~8	
Fineness (Residue on 200mesh Sieve)		≤ 0.2	
Pb (ppm)		≤ 20	
Cd (ppm)		≤ 10	

2. Packaging & Storage:

25 kg/bag, Palletized, 18 MT/20'GP



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The product should be stored under dry and clean conditions in its original packing, the moisture may increase if not under dry condition. Guaranteed for 12 months from production date when stored under above storage conditions.

3. Export Loading Container Picture:



4. Shipping Information:

UN Number: 3077

UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S.

Transport Hazard Class (Es): 9

Packing Group: III



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Environmental Hazards: Marine Pollutant

Harmonized Tariff Number: 2840.20

5.Product Advantage:

- Flame Retardant in both halogen containing and halogen free systems
- Partial Replacement of Antimony Trioxide (Sb_2O_3)
- Smoke Suppressant
- Afterglow Suppressant

6. Safety And Handling Information:

For specific safety, toxicity and handling information, please refer to material safety data sheet on this product.

7. Chemical Registration Numbers:

CAS NO.: 12767-90-7/138265-88-0

EINECS NO.: 215-566-6

8. Recommend Application:

The main applications include flexible PVC (cable materials, conveyor belting, floor tiles), silicones (insulator, coatings and wire insulations), polyamide.

Zinc borate, are used as fire retardant and smoke suppressant additives in polymers, plastics, and rubber applications.

Preservative for bio-composites: zinc borate is used to lend durability to these products, including oriented strand board (OSB), laminated strand lumber, oriented structural straw board, particle board, engineered bamboo scrimber and wood-plastic composites.