

Zinc Borate 2335

Hydrated mineral flame-retardant synergist and smoke-suppressant development in polymers.

CAS No. 138265-88-0	EC / List No. 235-804-2	Transport Class 9 — Environmentally hazardous solid
------------------------	----------------------------	---

Product Information

Zinc borate 2335 is a hydrated zinc-and-boron mineral additive for selected flame-retardant polymer systems. The 2335 designation describes the oxide and hydration ratio, $2\text{ZnO} \cdot 3\text{B}_2\text{O}_3 \cdot 3.5\text{H}_2\text{O}$. It differs from anhydrous zinc borate and should be selected by hydrate form as well as CAS number.

Specifications

Parameter	Specification
Appearance	White powder
Whiteness	95–98
Surface moisture	≤0.50 %
Median particle size, D50	3–5 μm
ZnO	37.0–40.0 %
B ₂ O ₃	47.0–49.0 %
Water of hydration	13.0–15.5 %
Residue on 45 μm sieve	≤0.50 %
Bulk density	400–500 kg/m ³
Dehydration temperature	>320 °C
Specific gravity, typical	Approximately 2.67
Refractive index, typical	Approximately 1.58

Supply specifications follow the local 2026 ZXCHEM TDS and apply to this commercial grade. Test the complete formulation for the intended application.

Typical Properties

Property	Typical Value
Molecular formula	$2\text{ZnO} \cdot 3\text{B}_2\text{O}_3 \cdot 3.5\text{H}_2\text{O}$
Molecular weight	434.66 g/mol

Applications

Thermoplastics and epoxy compounds: Mineral synergist for selected PVC, polyolefin, polyamide and epoxy packages. Evaluate dispersion, resin processing and complete-compound flame performance.

Rubber and cable materials: Component for selected smoke-suppression and flame-retardant systems. Test cure response, flexibility, ageing and finished-material smoke and fire performance.

Coatings and binder systems: Mineral additive for selected protective coatings and textile binders. Assess sedimentation, film properties, adhesion and durability.

Packaging / Storage

Item	Information
Packing	25 kg lined bags
Storage	Keep sealed in a cool, dry, ventilated warehouse. Protect from moisture, heat and contamination; store away from incompatible chemicals.
Handling	Use enclosed powder feeding or local extraction. Wear suitable protective gloves, eye protection and work clothing; avoid dust inhalation and direct contact. Provide controls for fumes during hot processing.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com