

HB CD Replacement Flame Retardant

Modified brominated ether additive for EPS, XPS and selected thermoplastic flame-retardant compounds.

CAS No. 97416-84-7	EC / List No. 306-832-3	Transport Non-dangerous goods
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Product Information

This HB CD replacement is tetrabromobisphenol A bis(2,3-dibromo-2-methylpropyl ether), CAS 97416-84-7. It is a modified brominated ether additive rather than hexabromocyclododecane. The methyl-substituted side chain also distinguishes it from conventional BDDP, CAS 21850-44-2; select materials by chemical identity when comparing formulations.

Specifications

Parameter	Specification
Appearance	White powder or granules
Purity	≥95 %
Melting point	≥100 °C
Volatile matter	≤0.30 %
Whiteness	≥90
Bromine content	≥65 %

Supply limits follow the local ZXCHEM TDS. Melting point is expressed in °C; whiteness is reported on the source scale. Finished-product flame ratings depend on the complete formulation.

Typical Properties

Property	Typical Value
Molecular formula	C ₂₃ H ₂₄ Br ₈ O ₂
Molecular weight	971.67 g/mol

Applications

EPS insulation formulations: Brominated additive for expandable polystyrene development. Evaluate bead processing, expansion, cell structure and final-board fire performance in the intended insulation formulation.

XPS extrusion formulations: Flame-retardant component for extruded polystyrene. Assess dispersion, melt stability, blowing-agent compatibility and finished-board properties across the actual extrusion window.

Selected thermoplastic compounds: Additive for selected polypropylene and styrenic resin development. Optimize the additive package through formulation trials, including thermal ageing, mechanical properties and the required fire test.

Packaging / Storage

Item	Information
Packing	25 kg lined bags / 1,000 kg bulk bags
Storage	Keep sealed in a cool, dry, ventilated warehouse. Protect bags from moisture, heat and contamination; segregate strong oxidizing and reducing materials.
Handling	Use enclosed powder feeding or local dust extraction. Wear suitable gloves, safety glasses and work clothing; avoid airborne dust and wash after handling. Keep heated-process fumes away from workers.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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