

FLAME & SMOKE DEFENSE SERIES

CT ZB400

Typical Physical Properties

Color	white to off-white
Specific Gravity	2.87
Median Particle Size (d50)	<5 µm
Approx. Dehydration Temp.	330 - 340°C
Weight Loss at 270°C	6% max
Weight Loss at 850°C	16% max
Free Moisture	<1%

CT ZB400 Zinc Borate* is an ultra-fine white powder used as a flame retardant/smoke suppressant. This material can also be used for reduced afterglow and arc/track.

Typical Chemical Properties

Boron Trioxide Content	46.5 - 49.5%
Zinc Oxide Content	37 - 40%
Crystallization Water	11.5 - 16.5%

APPLICATIONS: CT ZB400 Zinc Borate retains its crystalline water at high enough temperatures to process polyamides, polypropylene, and thermoplastic elastomers where they find applications as afterglow suppressants and anti-arcing agents. CT ZB400 is an effective flame-retardant synergist and smoke suppressant in halogenated polymers, particularly PVC, acting in the condensed phase as a char former. CT ZB400 can be used as a partial replacement of antimony oxide in PVC based systems. CT ZB400 is also used in specific applications for polyethylene, epoxies and rubbers including jacketing and insulation for plenum and riser cables, wall coverings, urethane foams, intumescent coatings, and belting.

For further guidance it is recommended that customers contact matsolutions@rjmarshall.com to discuss their specific recipes.

HEALTH AND SAFETY: Refer to the Safety Data Sheet

PACKAGING: 55 lb plastic bags, pallet weight 2200 lbs.

* CAS #1332-07-6

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