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## C-TECTM

## CT ZB 400 ZINC BORATE

## Typical Physical Properties

Average Particle Size (microns)	2-3
99.9% Less Than (microns)	15
Solubility in Water (g/100 ml)	0.2
Specific Gravity	2.74
Bulk Density (lb/ft3)	30
Refractive Index	1.59
TGA: 1% wt loss	500°F
5% wt loss	710°F
10% wt loss	790 °F

C-TEC<sub>TM</sub> CT ZB 400 Zinc Borate is an ultra-fine, white flame retardant/smoke suppressant powders that can also be used for reduced afterglow and arc/track.

## Typical Chemical Properties

Formula	4ZnO - 6B <sub>2</sub> O <sub>3</sub> - 7H <sub>2</sub> O
ZnO (theor.)	37.4%
B <sub>2</sub> O <sub>3</sub> (theor.)	48.1%
H <sub>2</sub> O (theor.)	14.5%

APPLICATIONS: CT ZB 400 Zinc Borate retains it's water of hydration at high enough temperatures to process polyamides, polypropylene, and thermoplastic elastomers where they are also used as afterglow suppressants and anti-arcing agents. ZB 400 is an effective flame retardant synergist and smoke suppressant in halogenated polymers, particularly PVC, acting in the condensed phase as a char former. ZB 400 allows the partial replacement of antimony oxide. C-TEC CT ZBs are also used in specific applications in polyethylene, epoxies and rubber. Typical uses include jacketing and insulation for plenum and riser cables, wall coverings, urethane foams, intumescent coatings and belting.

HEALTH AND SAFETY: Refer to the Material Safety Data Sheet.

PACKAGING: 50 lb. bags; pallet weight 2000 lbs.

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