



**Marshall Additive**  
**TECHNOLOGIES**  
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## C-TEC™

## CT ZB 200 ZINC METABORATE

### Typical Physical Properties

Average Particle Size (microns)	2-3
99.9% Less Than (microns)	15
Solubility in Water (g/100 ml)	0.1
Specific Gravity	2.70
Bulk Density (lb/ft <sup>3</sup> )	20
Oil Absorption (g/100 g)	31
Refractive Index	1.57
TGA: 1% wt loss (°F)	390
5% wt loss (°F)	470
10% wt loss (°F)	540

C-TEC™ CT ZB 200 Zinc Borate is a white, ultrafine free-flowing powder.

### Typical Chemical Properties

Formula	2ZnO · 2B <sub>2</sub> O <sub>3</sub> · 3H <sub>2</sub> O	
ZnO (theor.)		45.7%
B <sub>2</sub> O <sub>3</sub> (theor.)		39.1%
H <sub>2</sub> O (theor.)		15.2%

**APPLICATIONS:** The C-TEC CT ZB 200 zinc metaborate is an effective flame retardant synergist and smoke suppressant in halogenated polymers, particularly PVC, where it allows the partial or complete replacement of antimony oxide. ZB 200 acts as strong char formers in the condensed phase, inhibiting combustion and smoke formation by isolating the substrate from atmospheric oxygen. Applications include calendared sheet, compounded thermoplastics, plastisols, elastomers and thermosets. Typical uses for C-TEC CT ZB 200 include jacketing and insulation for plenum and riser cables, carpet tiles, wall coverings and belting.

Typical addition levels of 2-15% to replace 50-70% of AO.

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

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

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