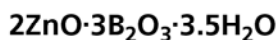




# Borogard<sup>®</sup> ZB

EPA Registered Zinc Borate for biocidal applications in coatings, plastics and rubber products



*Borogard ZB*

*Borogard ZB-Fine*

CAS Number 138265-88-0

*Borogard ZB* is a free flowing, readily dispersible, bright white powder, which does not detract from bright colors or pure whites. Its optimum performance as a corrosion inhibitor and biocide is obtained when *Borogard ZB* is uniformly dispersed in coatings, plastics and rubber.

## Applications

*Borogard ZB* is a unique form of zinc borate which can be used in plastic and rubber products and as a corrosion inhibitor in both organic solvent-based and water-borne coatings. *Borogard ZB* allows the formation of economical high performance coatings without the use of chromium, lead, or barium-based pigments. It may be used as an equal weight replacement for zinc chromate in many formulations.



## Chemical and physical properties

### Theoretical composition

Boric Oxide, B <sub>2</sub> O <sub>3</sub>	48.05%
Zinc Oxide, ZnO	37.45%
Water of Crystallization, H <sub>2</sub> O	14.50%
Anhydrous Equivalent	85.50%

### Characteristics (typical values)

Refractive Index	1.58
Median Particle Size: ZB	7 microns (Sedigraph) 9 microns (Laser diffraction)
ZB-Fine	3 microns (Sedigraph) 3 microns (Laser diffraction)
Solubility	Less than 0.28% in water at room temp.
Stability	Thermally stable up to 290 °C. Can be hydrolyzed by strong acids and bases.
Specific Gravity	2.77

### Stability

When stored under normal conditions of temperature and humidity, *Borogard ZB* is chemically stable and shows little tendency to cake.

**Notice:**

**Before using this product, please read the Product Specification, the Material Safety Data Sheet and any other applicable product literature.**

The descriptions of potential uses for this product are provided only by way of example. The product is not intended or recommended for any unlawful or prohibited use including, without limitation, any use that would constitute infringement of any applicable patents. Nor is it intended or recommended that the product be used for any described purposes without verification by the user of the product's safety and efficacy for such purposes, as well as ensuring compliance with all applicable laws, regulations and registration requirements.

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