

^{10}B ENRICHED BORIC ACID (EBA).



^{10}B Enriched Boric Acid is used in the cooling pools of PWR type nuclear power plants as a thermal neutron moderator. EBA has a high thermal neutron cross section which makes it ideal for use in reactors using advanced MOX fuels. The use of EBA allows for longer fuel cycles and decreased operator exposure risks. In BWR type reactors, EBA is used in emergency shutdown situations. EBA is available as a water soluble, white, crystalline solid.

Product Specification

Standard Material Characteristic	Specification Limit
Enrichment	>96 wt. % ^{10}B
Equivalent Boric Acid	>99.95 wt. %
Impurities	
Arsenic	<0.5 ppm
Calcium	<1 ppm
Chlorine	< 0.3 ppm
Fluorine	<0.3 ppm
Heavy Metals (as Pb)	<1 ppm
Iron	<2 ppm
Phosphates	<0.1 ppm
Sodium	<3 ppm
Sulfates	< 0.2 ppm
Water Insolubles	<10 ppm

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