

POTASSIUM FLUOROBORATE

GENERAL INFORMATION

Boron Products, LLC supplies potassium fluoroborate (KBF_4) enriched in ^{10}B . This product is used in industries where absorption of thermal neutron is required. Boron Products supplies enriched KBF_4 typically used as an additive to borated aluminum for use in spent fuel applications. Using KBF_4 enriched in ^{10}B as an additive to aluminum combines neutron absorption of the ^{10}B with the strength and thermal conductivity of the standard aluminum alloy. The material is a white to off-white powder exhibiting the following general characteristics:

Characteristic	Typical Value
^{10}B Enrichment	> 95 wt%
Moisture (Loss on drying)	< 1000 ppm
pH of Solution	3.0 to 4.0
Loss on Ignition	< 5000 ppm
Bulk Density	> 1.3 kg/L

Impurities	Typical Analysis
Boron content	7.5 to 8.5 wt%
Na(Sodium)	< 1000 ppm
Si(Silicon)	< 2000 ppm
Al(Aluminum)	< 100 ppm
Ca(Calcium)	< 100 ppm
Cu(Copper)	< 100 ppm
Fe(Iron)	< 100 ppm
Mg(Magnesium)	< 100 ppm
Ti(Titanium)	< 100 ppm

- Standard Packaging: 400 pounds bulk per fiber drum

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