

¹⁰B ENRICHED BORON OXIDE

PRODUCT SPECIFICATION

Standard Product

Boron Products, LLC manufactures enriched boron oxide by dehydration of the standard enriched boric acid product. The resulting anhydrous product exhibits the same overall quality levels as the beginning boric acid material, but impurities are increased by the removed water content.

Boron oxide is used in the manufacture of glass, and as a precursor to further synthesis. Boron Products' standard boron oxide meets the following specification limits:

Characteristic	Specification Limit		
Enrichment	96	wt % ¹⁰ B	Minimum
Equivalent Boron Oxide	99	wt.%	Minimum
Moisture	1.0	wt%	Maximum
Impurities:			
Calcium	100.0	ppm	Maximum
Chlorine	2.0	ppm	Maximum
Fluorine	2.0	ppm	Maximum
Heavy Metals (as Pb)	2.0	ppm	Maximum
Iron	10.0	ppm	Maximum
Phosphates	2.0	ppm	Maximum
Sodium	10.0	ppm	Maximum
Sulfates	2.0	ppm	Maximum
Water Insolubles	50	ppm	Maximum
Particle Size	100%		< 4 mesh

- Packaging: fiber drum, protected by vapor barrier bag.
- Certificate of Analysis provided with each shipment.
- Specific enrichments, purities, and particle sizes are available to meet special requirements.

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Boron Products, LLC

A Ceradyne Company
798 Hwy 69A
Quapaw, OK 74363

Tele: 918.673.2201 Fax: 918.673.1052

Email: inquiry@ceradyneboron.com Website: www.ceradyne.com