

TECHNICAL DATA SHEET

Product:	Boron Oxide (Anhydrous Boric Acid)
Synonyms:	Boric acid anhydride, Boric anhydride, Boric oxide, Boron oxide, Boron trioxide, Diboron trioxide, Fused boric acid, etc.
CAS#	1303-86-2
Formula:	B ₂ O ₃
Product Description:	Boron Oxide (Anhydrous Boric Acid) is a white, odorless, hygroscopic, porous solid powder.
Packaging:	Boron Oxide is available in both 25 kg (55 lb.) and 500 kg (1100 lb) packaging.
Applications:	<ul style="list-style-type: none"> - Fluxing agent for glass and enamels - Synthesis of various boron derivatives used in optical fibers - Borosilicate glass - Nuclear reactors, - Catalysis and other applications.

Typical properties of Boron Oxide:

Component	Unit	Specification	Typical Values	
B ₂ O ₃	%	98.00 min.	98.1	
SO ₄	ppm	500 max.	350	
Fe	ppm	15 max.	7	
Cl	ppm	10 max.	5	
Dry Sieve Analysis				
Size	Unit	US Mesh	Specification	Typical Value
+ 0.315 mm	%	50	75.00 min.	78

This product may contain trace impurities of Na, Ca, Ti, Zr and other rare-earth elements (<50ppm in total), Al as Al₂O₃ (<100ppm), and Si as SiO₂ (<1000 ppm).

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