

TECHNICAL DATA SHEET

Product:	Boron Oxide Glassy (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 Glassy (Anhydrous Boric Acid) is a white, odorless, hygroscopic, solid granular powder. By virtue of its method of production and its nature, this form of glassy boron oxide is almost vitreous.
Packaging:	Glassy Boron Oxide is available in both 25 kg (55 lb.) and 1000 kg (2200 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 Glassy Boron Oxide are as follows:

Component	Unit	Specification	Typical Values	
B ₂ O ₃	%	98 min.	98.2	
SO ₄	ppm	500 max.	350	
Fe	ppm	35 max.	8	
Cl	ppm	10 max.	6	
Dry Sieve Analysis				
Size	Unit	US Mesh	Specification	Typical Value
+ 0.250	%	60	35 max.	35

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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