

## TECHNICAL DATA SHEET

<b>Product:</b>	Boron Oxide Glassy (Anhydrous Boric Acid)
<b>Synonyms:</b>	Boric acid anhydride, Boric anhydride, Boric oxide, Boron oxide, Boron trioxide, Diboron trioxide, Fused boric acid, etc.
<b>CAS#</b>	1303-86-2
<b>Formula:</b>	B <sub>2</sub> O <sub>3</sub>
<b>Product Description:</b>	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.
<b>Packaging:</b>	Glassy Boron Oxide is available in both 25 kg (55 lb.) and 1000 kg (2200 lb.) packaging.
<b>Applications:</b>	<ul style="list-style-type: none"> <li>- Fluxing agent for glass and enamels</li> <li>- Synthesis of various boron derivatives used in optical fibers</li> <li>- Borosilicate glass</li> <li>- Nuclear reactors,</li> <li>- Catalysis and other applications.</li> </ul>

Typical properties of Glassy Boron Oxide are as follows:

Component	Unit	Specification	Typical Values	
B <sub>2</sub> O <sub>3</sub>	%	98 min.	98.2	
SO <sub>4</sub>	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 Al<sub>2</sub>O<sub>3</sub> (<100ppm), and Si as SiO<sub>2</sub> (<1000 ppm).

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