



## TECHNICAL DATA SHEET

<b>Product:</b>	Boric Acid (Powder)
<b>Synonyms:</b>	Boracic acid, Boronic acid
<b>CAS#</b>	10043-35-3
<b>Formula:</b>	H <sub>3</sub> BO <sub>3</sub>
<b>Product Description:</b>	Boric acid is a granular or powder, white crystalline solid with a slippery or soapy feel.
<b>Packaging:</b>	Boric acid is available in 25 kg (55 lb.) multi-wall paper or plastic bags, 1000 kg (2200 lb.) bulk bag packaging.
<b>Applications:</b>	<ul style="list-style-type: none"><li>- Synthesis of various boron derivatives</li><li>- Glass and ceramics</li><li>- Textile fiberglass</li><li>- Cellulose Insulation</li><li>- Agriculture</li><li>- Nuclear reactors</li><li>- Lubrication</li><li>- Pyrotechnics</li><li>- Wood preservation</li><li>- Insecticide</li><li>- Pharmaceuticals</li><li>- Adhesives</li></ul>
<b>Precautions:</b>	Boric acid is chemically stable under normal condition of storage, however, it is advised to store Boric acid under dry, cool and steady temperature conditions. During storage and transport avoid any wide variation in temperature. With temperature cycling and exposure to humid environment, Boric acid shows tendency for caking.

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### Typical properties of Boric Acid:

Property	Typical Value
Appearance	White powder
Bulk Density	35-40lb/ ft <sup>3</sup> (Powder)
Angle of repose	32-34°
Solubility in water at 20°C	4.70%
Solubility in Glycerol at 20°C	19.90%
Solubility in Ethanol at 25°C	11.96%

Chemical Analysis		
Component	Unit	Typical Value Powder
B <sub>2</sub> O <sub>3</sub>	%	55.73-56.29%
SO <sub>4</sub>	ppm	300 max.
Fe	ppm	5 max.
Cl	ppm	2 max.
Purity	%	≥99

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