

## **TECHNICAL DATA SHEET**

Product:	Boric Acid Normal Sulfate (Granular and Powder)					
Synonyms:	Boracic acid, Boronic Acid					
CAS#	<ul> <li>10043-35-3</li> <li>H<sub>3</sub>BO<sub>3</sub></li> <li>Boric acid is a granular or powder, white crystalline solid with a slippery or soapy feel.</li> <li>Boric acid is available in 25 kg (55 lb.) multi-wall paper or plastic bags, 1000 kg (2200 lb.) bulk bag packaging.</li> <li>Synthesis of various boron derivatives</li> <li>Glass and ceramics</li> <li>Textile fiberglass</li> <li>Cellulose Insulation</li> </ul>					
Formula:	H <sub>3</sub> BO <sub>3</sub>					
Product Description:	Boric acid is a granular or powder, white crystalline solid with a slippery or soapy feel.					
Packaging:	Boric acid is available in 25 kg (55 lb.) multi-wall paper or plastic bags, 1000 kg (2200 lb.) bulk bag packaging.					
Applications:	<ul> <li>Glass and ceramics</li> <li>Textile fiberglass</li> </ul>					
Precautions:	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.



## Typical properties of Boric Acid:

Property	Typical Value			
Appearance	Granular slippery white powder			
Bulk Density	50-60lb/ft <sup>3</sup> (Granular); 35-40lb/ ft <sup>3</sup> (Powder)			
Angle of repose	32-34∘			
Solubility in water at 20°C, 50°C and 100°C	4.7%, 10.3% and 27.5% respectively			
Solubility in Glycerol at 20°C	19.9%			
Solubility in Ethylene Glycol at 25∘C	13.6%			
Solubility in Ethanol at 25°C	11.96			

Chemical Analysis											
Component	Unit	Specification (min-max)					ecification min-max)	Typical Value Powder			
B <sub>2</sub> O <sub>3</sub>	%	56.2	56.25-56.9%		56.5	56	6.25-56.8%	56.5			
SO4	ppm	30	300 max.		250		300 max.	250			
Fe	ppm	4 max.			3	4 max.		3			
CI	ppm	5 max.			5	5 max.		5			
Water Insoluble	ppm		-		60	-		60			
Purity	%	99.92	-101.07%		100	99.92-101.07%		100			
	Dry Sieve Analysis										
Size	US Mesh	Unit	Specificatio Granular	on Ty	Typical Value Granular		Specificatio Powder	n Typical Value Powder			
(+)1.000 mm	+18	%	4 max.		2.0		0 max.	0.0			
(+)0.841 mm	+20	%	-		5.5		-	-			
(+)0.420 mm	+40	%	-	14.0		-		-			
(+)0.149 mm	+100	%	-		65.0		-	-			
(-)0.125 mm	-120	%	-		-		45 min.	75.0			
(+)0.074 mm	+200	%	-		10.0		-	-			
(-)0.063 mm	-230	%	4 max.		2.0		-	-			
(+)0.044 mm	+325	%	-	1.0			-	-			
(-)0.044 mm	-325	%	-	0.5			-	-			

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One Penn Cent. West, Suite 400 Pittsburgh, PA 15276 USA Telephone: +1 412-809-8215 - Fax: +1 412-809-8217 e-mail: etimineusa@etimineusa.com