



Bulletin 5101

Technical Information

PYROBOR[®] Dehydrated Borax 30/100 mesh Grade

Brand Name:	THREE ELEPHANT [®] PYROBOR [®] Dehydrated Borax		
Chemical Name:	Sodium tetraborate		
Also known as:	Anhydrous borax, borax glass, fused borax, dehydrated borax		
Formula:	Na ₂ B ₄ O ₇		
Molecular Weight:	201.22		
CAS/TSCA No.:	1330-43-4 REACH: 01-21199490790-32-0001		
Description:	A free flowing mixture of clear, glass-like particles and white granules		
	formed by the crushing of relatively large masses of fused materials.		
Grades:	30/100 mesh		

If you require guidance in developing product specifications, please contact Quality Assurance at (760) 372-2243

Chemical Analysis	Specification		Physical Analysis	Specification
Boric Oxide (B ₂ O ₃) Equivalent Borax (Na ₂ B ₄ O ₇)	68.5 % 99.0 %		U.S. Standard Sieve No. +30	(% cum. retained) 2 % max
Sodium Oxide (Na ₂ O)	30.5 %		+100	70 % min
Sulfate <i>as</i> SO ₄ Sodium Sulfate (<i>as</i> Na ₂ SO4)	150 ppm 223 ppm	max max		
Total Iron (Fe)	≤ 50 ppm			

Packaging		Handling	
Poly Bags: Semi-bulk Bags: Bulk:	25 kg 2,000 lb and 1,000 kg Hopper cars	Information concerning the handling and use of this product is provided in a safety data sheet (SDS). The SDS must be fully read and understood prior to any exposure, handling, or use of the product.	

The information herein is believed to be reliable. However, no warranty, expressed or implied, is made as to its accuracy or completeness and none is made as to **MERCHANTABILITY** of the material or its **FITNESS FOR ANY PURPOSE**. The manufacturer shall not be liable for consequential damages or for damage to persons or property resulting from its use. Nothing herein shall be construed as a recommendation for use in violation of any patent.



SVM's QMS is Certified to ISO 9001:2015

Theoretical Properties The following properties are textbook theoretical data and are provided for convenience and reference only. These properties are not normally tested for the commercial product and no representation is made relative to the commercial product.

Theoretical Composition

Sodium oxide

Heat of Formation @ 25°C

-786.6 Kcal/g-mol or -3121.6 Btu

Stability

On exposure, anhydrous borax, PYROBOR®, slowly absorbs drate. The clear, glassy

orax produced by the borax. On cooling, the ous (glassy) form. The kilos) of decahydrate is rous borax.

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Boric oxide	(B ₂ O ₃) 69.2 %	moisture, gradually reverting back to a hyd particals become white and opaque.
Melting Point 742.5°C (1367°F)		Angle of Repose, horizontal 31 degrees
Specific Heat @ 25°C 44.64 cal/deg-mol		Other Information PYROBOR [®] is completely anhydrous bor
Heat of Solution @ 18°C 7.26 Kcal/g-mol <i>or</i> 28.81 Btu		dehydration and fusion of decahydrate be fused product converts to an amorphou chemical equivalent of 100 pounds (or ki contained 52.8 pounds (or kilos) of anhydro

(Na₂O) 30.8 %