

PYROBOR[®] Dehydrated Borax 30/100 mesh Grade

Brand Name:	THREE ELEPHANT [®] PYROBOR [®] Dehydrated Borax	
Chemical Name:	Sodium tetraborate	A CONTRACT A CONTRACT
Also known as:	Anhydrous borax, borax glass, fused borax, dehydrated borax	oystein
Formula:	$Na_2B_4O_7$	ISO 9001:20
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		Physical Analysis			
•	Specification			Specification	
			U.S. Standard Sieve No.	(% cum. retained)	
Boric Oxide (B ₂ O ₃)	68.5 %	min	+30	2 % max	
Equivalent Borax (Na ₂ B ₄ O ₇)	99.0 %	min	+100	70 % min	
Sodium Oxide (Na ₂ O)	30.5 %	min			
Sulfate as SO4	150 ppm	max			
Sodium Sulfate (<i>as</i> Na ₂ SO4)	223 ppm	max			
Total Iron (Fe)	≤ 50 ppm				

Poly Bags: Semi-bulk Bags: Bulk: Packaging 25 kg 2,000 lb and 1,000 kg Hopper cars

Handling

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.







Searles Valley Minerals

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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 Boric oxide

(Na₂O)

 (B_2O_3)

30.8 %

69.2 %

Melting Point

742.5°C (1367°F)

Specific Heat @ 25°C

44.64 cal/deg-mol

Heat of Solution @ 18°C

7.26 Kcal/g-mol or 28.81 Btu

Heat of Formation @ 25°C

-786.6 Kcal/g-mol or -3121.6 Btu

Stability

On exposure, anhydrous borax, PYROBOR®, slowly absorbs moisture, gradually reverting back to a hydrate. The clear, glassy particals become white and opaque.

Angle of Repose, horizontal

31 degrees

Other Information

PYROBOR[®] is completely anhydrous borax produced by the dehydration and fusion of decahydrate borax. On cooling, the fused product converts to an amorphous (glassy) form. The chemical equivalent of 100 pounds (or kilos) of decahydrate is contained 52.8 pounds (or kilos) of anhydrous borax.

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