

TECHNICAL DATA SHEET

Product: **BORAX DECAHYDRATE**

Synonyms: Di-sodium Tetraborate Decahydrate, Sodium Borate Decahydrate, 10 mol Borax

CAS# 1303-96-4

Formula: $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$

Product Description: Borax Decahydrate is a white, odorless and hygroscopic product available in crystalline granular or powder forms. Borax Decahydrate is directly produced from naturally occurring resources by refinement and recrystallization. It is mildly alkaline in nature and commonly used as a buffering salt.

Packaging: Borax decahydrate is available in 25 kg (55lb.) multi-wall paper or plastic bags and in 1000 kg (2200lb) bulk bag packaging.

Applications:

- Fluxing agent
- Water Softener and Buffering Agent
- Soaps and Detergent formulations
- Agriculture
- Corrosion Inhibition
- Lubricant
- Antifreeze
- Adhesives
- Flame retardant

Precautions: Borax Decahydrate is chemically stable, however, it is advised to store Borax Decahydrate 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, Borax Decahydrate shows a strong tendency for inter-particle bridging or caking.

Typical properties of Borax Decahydrate:

Component	Unit	Specification (min-max)	Typical Value	
B ₂ O ₃	%	36.47- 38.50%	38%	
Na ₂ O	%	16.24 – 17.14%	17%	
SO ₄	ppm	135 max.	100 ppm	
Fe	ppm	10 max.	3 ppm	
Cl	ppm	70 max.	22 ppm	
Purity	%	99.90 min.	100%	
Dry Sieve Analysis				
Size	US Mesh	Unit	Specification	Typical value
+ 1.180 mm	+ 16	%	4.0 max.	1.6
- 0.063 mm	- 230	%	4.0 max.	3.0

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