



Specialized in chemicals

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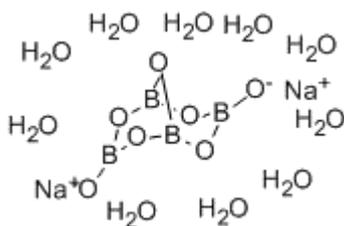
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Technical Data Sheet

Sodium Tetraborate Decahydrate

Product Information

Product Name	Sodium tetraborate decahydrate
Synonyms	Borax; Borax decahydrate; Sodium borate; Sodium pyroborate decahydrate Sodium tetraborate 10H ₂ O;
CAS No.	1303-96-4
EINECS No.	215-540-4
Molecular formula	Na ₂ B ₄ O ₇ ·10H ₂ O
Molecular weight	381.37
Chemical structure	



Physical Properties

Colorless transparent crystals or white crystalline powder. Odorless, taste salty. Slightly soluble in cold water, soluble in hot water, glycerin, slightly soluble in ethanol, carbon tetrachloride.

Density	1.73g/mL at 25°C
Melting Point	75°C
Boiling Point	320°C
Water solubility	60g/L at 20°C

Specification

<u>Items</u>	<u>Normal Grade</u>	<u>Superior Grade</u>
Appearance	White crystalline powder	White crystalline powder
Assay (Na ₂ B ₄ O ₇ ·10H ₂ O)	≥95.0%	≥99.5%
Sodium carbonate (Na ₂ CO ₃)	≤0.20%	≤0.10%
Water insoluble matter	≤0.04%	≤0.04%
Sodium sulphate (Na ₂ SO ₄)	≤0.20%	≤0.20%
Sodium chloride (NaCl)	≤0.05%	≤0.03%
Iron (Fe)	≤0.005%	≤0.002%

Safety

Borax is not dangerous goods, it's stable materials.
Always refer to the Material Safety Data Sheet (MSDS)

Applications

- 1) Borax as disinfectant, preservative, water softener, eye wash, available for washing powder and soap filler, ceramic glaze and glass raw material, etc..
- 2) in the metallurgical industry, borax for forging and welding test and metal, and is a good flux; in the weld metal and convenience to people with borax cleaning metal surface.
- 3) It is made of optical glass, enamel and enamel materials. In the glass, can enhance the UV transmittance, improve the transparency of the glass and heat resistant performance; in enamel products, can make the enamel is not easy to fall off and make its luster; widely used in special optical glass, glass fiber, jewelry, adhesive, printing and dyeing, washing (silk and wool, etc.), the gold refining, cosmetics, pesticides, fertilizers, borax soap, antiseptic, antifreeze and medical with disinfectant.
- 4) It is the basic raw material for producing borax boron compounds, almost all of the boron compound can be made by borax. They in metallurgy, iron and steel, machinery, military, knives, paper making, electronic tube, chemical industry and textile and other departments have important and extensive use; boron compound boranes can also be high power rocket fuel.

Packaging

50 kg/bag , inner plastic bag outer woven bag or as per customer's requirements

Storage & Handling

It is non-toxic, harmless, non flammable, explosive chemicals can according to the general transportation. put in a cool, dry place, rain, moisture, avoid eating.

Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.

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