



Borax Decahydrate Crystals

BACKGROUND

When people think of Borax Decahydrate (also known as Borax or Sodium Tetraborate) they only think of a white crystalline or fine powder. However, in few Asian countries like India, China etc. Borax Decahydrate is traditionally used in Crystal form.

Borax Crystals (as they are commonly called) are mainly composed of Boric Oxide (B_2O_3), Sodium Oxide and water. Borax crystals are transparent, colourless & not flammable or reactive. They are measuring approx. 3-5 inches in size. Borax Crystals have excellent buffering and fluxing properties.

APPLICATION AND BENEFITS

Borax Crystals are used as metallurgical fluxes. The ability to dissolve metal oxides is exploited in the recovery of metals such as brass, copper, lead and zinc from scrap or smelting slag. In ferrous metallurgy, Borax Crystals are used as a cover flux to prevent oxidation at the surface of the molten ingot. In welding, brazing, and soldering, Borax Decahydrate covers the metal surfaces, excluding air and preventing oxidation. It also acts as a solvent and cleaning agent.

Traditionally, in India, Borax Crystals have been used for thousands of years in Unani medicine as an antiseptic.

Borax Crystals also act as a source of slow and controlled release of micronutrient boron in Agriculture applications. In areas prone to heavy & frequent rainfall, the valuable nutrients get leached off from the top layer of soil. Borax Crystals are usually used in such areas to prevent leaching and provide a slow and sustained release of Boron.

GENERAL INFORMATION

Product Name	Borax Decahydrate Crystals
Chemical Name	Borax Decahydrate, Borax 10 Mol, Di Sodium Tetraborate Decahydrate
Chemical Formula	Na ₂ B ₄ O ₇ . 10 H ₂ O
CAS No	1303-96-4

> PHYSICAL PROPERTIES

Molecular Weight	381.35
Appearance	Colourless Transparent Crystals
Bulk Density (Loose)	1.78 gms/cc
Particle Size	3- 5 inches

> CHEMICAL PROPERTIES

Boron Content (As B)	10.5% Min	
Boron Content (As B ₂ O ₃)	36.4% Typical	
Na₂O	16.25 % Typical	
Matter Insoluble in Water	1.0% Max	

> SOLUBILITY AND pH

Solubility in Water		
At 20°C	4.7%	
At 30°C	65.64%	

pH@ 20°C	
pH 0.1% solution	9.3
pH 1.0% solution	9.2

PACKAGING

25 Kg PP Bags with Inner Liner.

NOTICE:

Before using these products, please read the Product Specifications, the Safety Data Sheets and any other applicable product literature. The descriptions of potential uses for these products are provided only by way of example. The products are not intended or recommended for any unlawful or prohibited use including, without limitation, any use that would constitute infringement of any applicable patents. Nor is it intended or recommended that the products be used for any described purposes without verification by the user of the products' safety and efficacy for such purposes, as well as ensuring compliance with all applicable laws, regulations and registration requirements. Suggestions for use of these products are based on data believed to be reliable. The seller shall have no liability resulting from misuse of the products and provides no guarantee, whether expressed or implied, as to the results obtained if the products are not used in accordance with directions or safe practices. The buyer assumes all responsibility, including any injury or damage, resulting from misuse of the product, whether used alone or in combination with other materials. THE SELLER MAKES NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE SELLER SHALL HAVE NO LIABILITY FOR CONSEQUENTIAL DAMAGES.





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^{*}All data above are determined by Raj Borax Private Ltd analytical methods.