

Borax 10 MSR

PRODUCT PROFILE: MSR BORAX 01/2016 Borax Decahydrate Disodium Tetraborate Decahydrate Na₂B₄0₇.10 H₂O



Characteristics

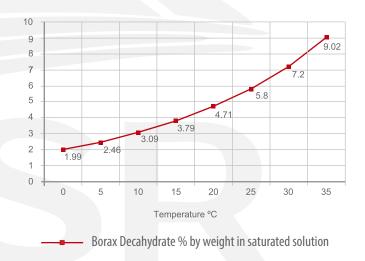
Molecular Weight	381.43
Purity like B element	11.3 % Min.
Purity like Na ₂ B ₄ O ₇ .10H ₂ O	99.5 % Min.

Borax 10 MSR is the refined form of natural sodium borate. It is composed of Boric Oxide (B2O3), Sodium Oxide and water. It is a mild alkaline, white and crystalline salt with excellent buffering and fluxing properties. It is available in its granulated form.

Chemical and Physical Properties

B ₂ O ₃	36.5%Min.
Na ₂ 0	16.2% Min.
Sulfates (SO 4)	0.10% Max.
Chlorides (CI-)	0.10% Max.
Iron (Fe ₃ +)	0.0003% Max.
Humidity	0.10% Max.

Solubility in water



Packaging

Borax 10 MSR is available in 25kg polypropylene bags and in bulk bags with 1000kg.



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Applicattions and benefits

Soap and detergents

Borax Decahydrate is incorporated in many cleaning products, as a pH buffering agent to aid in the emulsification of oils, and also as a gentle abrasive. Borax 10 MSR is added to powdered hand soaps to remove medium to heavy soils encountered in industrial operations. It is added to different formulations in order to clean hard surfaces such as metals, glass and ceramics. It is also used as an additive in hand cleaners, polishes and waxes, and industrial or institutional cleaning compounds. In laundry detergents, Borax Decahydrate facilitates the removal of oily solutions from fabrics while imparting alkalinity, pH buffering and softening properties to the washing water.

Personal care products

Borax 10 MSR is used in cosmetics, toiletries and pharmaceuticals. It is also used in contact lens solutions together with Boric Acid as a gentle cleaner and a buffering agent. Bora
Decahydrate is also used as a cross-linking agent to emulsify waxes and paraffin used as a base for lotions, creams and ointments.

Metallurgical fluxes

Borax 10 MSR's capacity 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 Decahydrate is used as a cover flux to prevent oxidation at the surface of the molten ingot. In welding, brazing and soldering, this product is used to cover metal surfaces by excluding air and preventing oxidation. It also acts a solvent and cleaning agent.

Corrosion Inhibitor

Different boron formulations can be used as corrosion inhibitors and anti-freeze solutions (mixed with Ethylene Glycol in automobile motor cooling systems) as well as in brewing, heat treating, hydraulic fluids and treatment if metallic products.

Borax 10 MSR is incorporated in many aqueous systems that require this property. It protects ferrous metals against oxidation and finds its use in the production of automobile and engine coolant formulations and various chemicals treatment Borax Decahvdrate neutralizes the acidic residue that results from the decomposition of Ethylene Glycol and minimizes the rate of oxidation at the metal's surface. Aqueous solutions with Decahydrate have replaced chromates used in railroad and other diesel engine coolants.

Adhesives

Borax 10 MSR is part of the starch adhesive formulation of corrugated paper and paperboard. It is also used as a peptizing agent in the manufacture of casein-based and dextrin-based adhesives. It greatly improves the tack and green strength of the adhesive by cross-linking conjugated hydroxyl groups.

Refractories

Borax Decahydrate compounds are used as stabilizers and bonding agents in specialty abrasives.

Other Applications

Borax Decahydrate is used as a flame retardant in cellulosic materials. It is also a buffer and catalyst for organic dies, a carrier for herbicides and a degreasing buffer in enameling processes.