

SPECIFICATION

Product Name: Boric Acid Food Grade
Chemical Formula: H_3BO_3
CAS Number: 10043-35-3
Molecular Weight: 61.83 g/mol
Appearance: White crystalline powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min./Max.)
Assay	%	99.92%	99.5% - 100.5%
Moisture	%	0.23%	<0.5%
Chloride	PPM	3.02 PPM	<5.0 PPM
Sulphate	PPM	0.134 PPM	<300 PPM
Sodium	PPM	1.89 PPM	<5.0 PPM
Boron	%	56.37%	56.25 - 56.90%
Iron	PPM	0.98 PPM	<2.0 PPM
Solubility in water	-	1gm in 20 ml water @27°C	-
Water insoluble	%	0.0023%	<0.005%

Physical Properties

- Solubility: Soluble in water. Soluble in ethanol. Soluble in glycerol.

Shelf Life & Storage

- Shelf Life: 3 years from date of manufacture under recommended storage.

- Storage Conditions: Store in a cool, dry, and well-ventilated place. Keep the container tightly closed to protect from moisture and contamination. Store away from strong alkalis, strong oxidizing agents, and incompatible chemicals in the original, properly labeled container. Protect from excessive heat and direct sunlight to maintain product quality.

Applications

- Use: Widely used in industrial, laboratory, agricultural, and certain pharmaceutical applications. It is commonly used in the manufacture of glass, ceramics, fiberglass, enamels, detergents, flame retardants, and borate compounds.

- Dosage: Depends on the specific formulation or process and should be determined according to the applicable pharmacopeial standards, technical specifications, and regulatory requirements. Boric acid should only be used in approved applications and handled according to the relevant safety guidelines.

Packaging

- Standard Packing: 25 Kgs woven pp bag with inner liner or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.