

SPECIFICATION

Product Name: Boric Acid Technical 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
Purity	%	Min. 99.5%
Moisture	%	Max. 0.2%
B ₂ O ₃	%	Min. 56.24%
Boron	%	17%
PH	-	4 to 4.7
Sulphate	%	Max. 0.15 to 0.25%
Chloride	%	Max. 0.05 to 0.15%
Iron	%	Max. 0.005%
Heavy metals (pb)	%	Max. 0.001%
Soluble in water	-	57 G/L (27° C)

Physical Properties

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

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry, and well-ventilated place at 15–30°C. Protect from moisture, excessive humidity, and contamination. Keep the container tightly closed in the original, properly labeled container. Store away from strong alkalis, strong reducing agents, and incompatible materials, and protect from direct sunlight and excessive heat to maintain product quality and stability.

Applications

- Use: Widely used in industrial and laboratory applications. It serves as a chemical intermediate, pH buffering agent, flame retardant, corrosion inhibitor, and preservative. It is commonly used in the manufacture of glass, fiberglass, ceramics, enamels, detergents, adhesives, fertilizers, wood preservatives, and metal treatment chemicals. It is also used in electroplating, textile processing, leather processing, and laboratory reagents.
- Dosage: Depends on the specific industrial process, chemical formulation, laboratory procedure, or manufacturing application and should be determined according to the relevant technical specifications, standard operating procedures, and process requirements.

Packaging

- Standard Packing: 50 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.