

TECHNICAL PRODUCT DATA SHEET

BORIC ACID

Orthoboric acid is a high-purity compound of boron, oxygen, and hydrogen. Known for its versatile chemical properties, it serves as a critical agent across multiple industrial applications.

Technical Grade

Explosive Grade

Special Quality Grade

CHEMICAL & PHYSICAL PROPERTIES

Chemical Name	Boric Acid / Orthoboric Acid
Molecular Formula	H_3BO_3 / BH_3O_3 / $B(OH)_3$
Molecular Weight	61.83 g/mol
Chemical Type	Monobasic Lewis Acid
Physical Form	Free Flowing White Powder
Odor / Smell	Odorless
Density	1.435 g/cm ³ (kg/L)
Melting Point	170.9 °C
Boiling Point	300.0 °C
pH Level (Water)	3.5 - 5.0 (at 20 °C)
Solubility	5.6 g / 100 mL in water (at 20 °C)

APPLICATIONS & USES

- ✓ **Fire Retardant:** Effective fireproofing agent for wood and timber treatment.
- ✓ **Preservative:** Widely used in industrial timber and material preservation.
- ✓ **Antiseptic:** Utilized for mild antiseptic and cosmetic formulation.
- ✓ **Ceramic Industry:** Essential ingredient in glazes, enamels, and optical glass.
- ✓ **Steel Plants:** Employed in metallurgy and specialty chemical processes.

GRADE SPECIFICATIONS

Available in customized particle sizes and purity standards suitable for industrial manufacturing, explosive compositions, and specialized chemical processing.

COMMERCIAL INFORMATION & PACKAGING

STANDARD PACKAGING

50 Kgs Jute Bag / HDPE Bag with Inner Liner

PAYMENT TERMS

100% Advance

SAMPLE AVAILABILITY

Available (Free of Cost)

SUPPLY & COVERAGE

Main Domestic Market - All India