



Technical Data Sheet (TDS)

Boron Products (Borates) – Industrial Grade

Product Name:

Boron Derivatives (Borates)

Common Grades:

- Boric Acid (H_3BO_3)
- Borax Decahydrate ($Na_2B_4O_7 \cdot 10H_2O$)
- Borax Pentahydrate ($Na_2B_4O_7 \cdot 5H_2O$)

Typical Physical & Chemical Properties

Boric Acid

Property	Specification
Appearance	White crystalline powder
Purity (H_3BO_3)	$\geq 99.5\%$
B_2O_3 Content	$\geq 56.0\%$
Sulfate (SO_4)	$\leq 0.05\%$
Chloride (Cl)	$\leq 0.01\%$
Iron (Fe)	$\leq 0.003\%$
Moisture	$\leq 0.5\%$
Solubility	Soluble in water
Mesh Size	100–200 mesh (customizable)

Borax Decahydrate

Property	Specification
Appearance	White crystalline / granular
Purity	$\geq 99.0\%$
B_2O_3 Content	$\geq 36.5\%$
Na_2O Content	$\geq 16.2\%$
Sulfate	$\leq 0.1\%$
Chloride	$\leq 0.03\%$
Iron	$\leq 0.005\%$
Moisture	$\leq 1.5\%$
Bulk Density	$0.8 - 1.0 \text{ g/cm}^3$



Borax Pentahydrate

Property

Appearance
Purity
B₂O₃ Content
Na₂O Content
Sulfate
Chloride
Iron
Moisture

Specification

White powder / granular
≥ 99.0%
≥ 47.5%
≥ 21.5%
≤ 0.1%
≤ 0.03%
≤ 0.005%
≤ 1.0%

Applications

- Glass and fiberglass manufacturing
- Ceramic and enamel production
- Detergents and cleaning products
- Agriculture (micronutrient fertilizers)
- Flame retardants
- Metallurgy and flux applications