



Properties: Boron oxide, also known as diboron trioxide, the main oxide of boron. Colorless, semi-transparent glassy lumps or hard white odorless crystals. Moderately soluble in water.

Uses: It is the raw material for high purity boron, dopant and flux for semiconductor industry, refractory additive for heat-resistant glassware and paints.

· Identifier

Chemical Formula	B ₂ O ₃
CAS No.	1303-86-2
EINECS No.	215-125-8

· Physical and chemical properties

Molecular weight	69.62 g/mol	Flash point	/	Reactivity	Not easy to decompose, easy to absorb water
Appearance	White waxy solid	Melting point	450 °C	Solubility	Soluble in water, soluble in acid and alkali solutions
Density	1.812 g/cm ³	Boiling point	1860 °C	Storage	Shady and cool, well-ventilated

· Metal impurities

Project	Unit	Specification	Project	Unit	Specification
Si	ppm	≤5	Se	ppm	≤0.1
P	ppm	≤0.1	Sb	ppm	≤0.1
Cr	ppm	≤0.1	Pb	ppm	≤0.1
Fe	ppm	≤0.2	Bi	ppm	≤0.1
Cu	ppm	≤0.2	Al	ppm	≤0.5
Zn	ppm	≤0.3	/	/	/
water content(ppm)			Level I	Level II	Level III
			≤200	201~500	501~1000

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