

SPECIFICATION

Boron

Parameters	Specification
CAS Number	7440-42-8
Appearance	Dark brown to black powder
Molecular Formula	B
Molecular Weight	10.81 g/mol
Boiling Point	3927 °C
Melting Point	2076 °C
Flash Point	Not applicable
Purity	99-99.9%
Refractive Index	2.1
Solubility	Insoluble in water; soluble in hot acids
Uses	Neutron absorber in nuclear reactors (boron carbide, boron nitride); glass and ceramic production; metallurgical flux; catalyst and semiconductor doping

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