

¹⁰Boron Trifluoride Nuclear Grade

SPECIFICATIONS

ISOTOPIC ENRICHMENT

Boron-11/Boron-10 ratio is determined by ICP-MS, Inductively Coupled Plasma Mass Spectrometry

B-10 (Atomic %)> 99.0%

CHEMICAL PURITY

Boron Trifluoride.....>99.9%

PROPERTIES

Molecular Weight.....67.0
 Vapor Density (air = 1)2.38 (20°C)
 Boiling Point-100°C
 Melting Point.....-127°C
 Flash Pointnon flammable

PACKAGING

ALL CYLINDERS are fully D.O.T. certified containers manufactured from carbon steel. Customer cylinders may be filled upon request. Cylinders sold separately.

VALVES are 316 stainless steel CGA 330 or DISS 642. Non standard valves and cylinders may require additional delivery time.

MINIMUM ORDER

50 Grams

STANDARD CYLINDERS

CYLINDER	O.D.	Length	Gross Wt.	Wall	Volume	Service Pressure	Test Pressure	Fitting	Max. Fill (¹⁰ BF ₃)
Description	inches (mm)	inches (mm)	pounds (kg)	inches (mm)	cu. inches (liters)	p.s.i.	p.s.i.	NGT	grams
0.44L Lecture Bottle	1.94 (49.28)	11.88 (302)	2.3 (1.04)	0.095 (2.41)	25.5 (0.418)	1800	3000	3/4	100
2.13L Flat Base and Valve Cover	4.15 (105)	13.5 (343)	11.0 (4.98)	0.100 (2.54)	130 (2.13)	2015	3360	3/4	600
8.4L Flat Base and Valve Cover	7.00 (178)	17.40 (442)	25.0 (11.3)	0.160 (4.06)	525 (8.60)	2015	3360	3/4	1600

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