

Boron Trifluoride



Grade	ULSI 4N5	¹¹ B Enriched
Purity, %	99.995	99.9
Oxygen		≤25 ppmv
Oxygen + Nitrogen + Argon	≤10 ppmv	
Nitrogen		≤25 ppmv
Carbon Dioxide	≤10 ppmv	≤25 ppmv
Argon		≤25 ppmv
Sulfur Dioxide	≤10 ppmv	≤25 ppmv
Hydrogen Fluoride		≤25 ppmv
Isotopic Purity, ¹¹ B		>99.7%

- A lot analysis is provided for each order – Individual analysis is also available upon request.
- Pneumatic valves and JIS connections available upon request

CYLINDER	Internal Volume	Liters	2.3		0.44
	Cylinder Sizes >>		JB/JF		SF/SA
	Content	g	400	180	35
		lbs	0.88	0.39	0.077
Cylinder Pressure*	psig	700	400	400	
	atm	50.2	29.1	29.1	

* @ NTP

SHIP	DOT Shipping Name	Boron Trifluoride, Compressed	UN Number	UN 1008	Shipped as
	DOT Classification	2.3, Poison Gas Hazard Zone B (Gas Poisonous by Inhalation)	ECCN #	EAR99	Compressed Gas
	DOT Label	POISON GAS / INHALATION HAZARD	Harmonized #	2812-90-0000	

TECHNICAL DATA	Specific Volume	0.35 m ³ /kg
	@NTP	5.6 ft ³ /lb
	CAS No	7637-07-02
	CGA/DISS/JIS	330/642/W22-14L
	Molecular Weight	67.81 g/mol
	TLV	1 ppm

RFO Data	Size, mm	0.254	0.3556	0.508	0.762	1.016
	Size, inches	0.010	0.014	0.020	0.030	0.040
	Flow, sccm	10640	20313	41916	93505	161215
	Flow, scf/h	22.5	43.0	88.8	198.1	341.6

NTP = 21°C or 70°F and 101.3 kPa or 1 atm

Cylinder	Treatment	Nominal Diameter (OD)xHeight*		Material of Construction	
		cm	Inches	Cylinder	Valve
JB	ULTRA-LINE II®	10x33/37/46	4x13/14.5/18	CS	SS
JF	ULTRA-LINE®	10x33/37/46	4x13/14.5/18	CS	SS
SF	ULTRA-LINE®	5x30/34/43	2x12/13.5/17	CS	SS
SA	ULTRA-LINE®	5x30/34/43	2x12/13.5/17	CS	Brass

*Height is reported as the distance from the bottom of the cylinder to the cylinder neck/ center of the valve outlet/ top of the handwheel
CS: Carbon Steel SS: Stainless Steel

⚠ WARNING: This product can expose you to chemicals including Sulfur Dioxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

