

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



MATHESON

ask. . .The Gas Professionals™