

Sulfur Hexafluoride

SF₆

Grade	Instrument 4N	ULSI 5N
Purity, %	99.99	99.999
Air	≤50 ppmv	≤5 ppmv
Carbon Tetrafluoride	≤80 ppmv	≤5 ppmv
Water		≤3 ppmv

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

CYLINDER	Internal Volume	Liters	43.8	43.8	43.8	29.5	29.5	
	Cylinder Sizes >>		QA/QB	QB	QF	QX	QH	
	Content	kg	45.45	22.73	31.8	22.73	22.7/31.8	
		lbs	100	50	70	50	50/70	
Phase Break*	lbs	20.0	20.0	20.0	13.5	13.5		

*Recommended Cylinder Change Point at NTP, based on Phase Break, or the amount of product left in the cylinder when the liquid phase has completely evaporated and only gaseous product is left (estimate based on ideal gas behavior).

SHIP	DOT Shipping Name	Sulfur Hexafluoride	UN Number	UN 1080	Shipped as
	DOT Classification	2.2 (Non-Flammable Gas)	ECCN #	EAR99	Liquefied Gas
	DOT Label	NON-FLAMMABLE GAS	Harmonized #	2826.19.0000	

TECHNICAL DATA	Cylinder Pressure @NTP	320 psig 23.5 atm
	Specific Volume @NTP	0.16 m ³ /kg 2.5 ft ³ /lb
	CAS No	2551-62-4
	CGA/DISS/JIS	590/716/W22-14R
	Molecular Weight	146.1 g/mol
	TLV	1,000 ppm

Critical Temperature	45.5°C	114°F
Critical Pressure	38.3 atm	545.3 psia

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	5738	10955	22606	50428	86945
	Flow, scf/h	12	23	48	107	184

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
QA	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	Brass
QB	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	CS	SS
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	SS
QX	ULTRA-LINE®	20x122/126/135	8x48/49.5/53	Aluminum	Brass
QH	ULTRA-LINE®	20x122/126/135	8x48/49.5/53	Aluminum	SS

*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



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