

# Silicon Tetrafluoride



Grade	Semicon 4N	ULSI 4N
Purity, %	99.99	99.99
Oxygen	≤20 ppmv	
Oxygen + Argon		≤1.0 ppmv
Nitrogen	≤80 ppmv	≤3.0 ppmv
Carbon Dioxide		≤1.0 ppmv
Carbon Monoxide		≤0.5 ppmv
Methane		≤10 ppmv
Hydrogen Fluoride		≤50 ppmv
Arsenic		≤0.5 ppmv
Boron		≤0.5 ppmv
Phosphorus		≤0.5 ppmv

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

<b>CYLINDER</b>	Internal Volume	Liters	43.8
	<b>Cylinder Sizes &gt;&gt;</b>		<b>QB</b>
	Content	kg	22.7
		lbs	50

<b>SHIP</b>	DOT Shipping Name	Silicon Tetrafluoride	UN Number	UN 1859	Shipped as Compressed Gas
	DOT Classification	2.3 (Poison Gas)	ECCN #	EAR99	
	DOT Label	POISON GAS CORROSIVE	Harmonized #	2826.19.0080	

<b>TECHNICAL DATA</b>	Cylinder Pressure	1,000 psig
	@NTP	71.3 atm
	Specific Volume	0.23 m <sup>3</sup> /kg
	@NTP	3.7 ft <sup>3</sup> /lb
	CAS No	7783-61-1
	CGA/DISS/JIS	330/642/W22-14L
Molecular Weight	104.08 g/mol	

Critical Temperature	-14.2°C	6.4°F
Critical Pressure	37.9 atm	539 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	21163	40402	83369	185976	320648
	Flow, scf/h	45	86	177	394	679

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
QB	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	CS	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

⚠ WARNING: This product can expose you to chemicals including Carbon Monoxide, 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](http://www.P65Warnings.ca.gov).

⚠ WARNING: This product can expose you to chemicals including Arsenic (inorganic arsenic compounds), which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

