

Helium

He

Grade	Semicon 5N	ULSI 6N
Purity, %	99.999	99.9999
Oxygen	≤2.0 ppmv	≤50 ppbv
Nitrogen	≤3.0 ppmv	≤400 ppbv
Carbon Dioxide	≤1.0 ppmv	≤100 ppbv
Carbon Monoxide	≤1.0 ppmv	≤50 ppbv
Methane	≤1.0 ppmv	≤100 ppbv
Water	≤3.0 ppmv	≤200 ppbv

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

CYLINDER	Internal Volume	Liters	43.8	5.9
	Cylinder Sizes >>		QF/QA/QB	UA/UF
	Content	Liters	6,910	880
		ft ³	244	31
	Cylinder Pressure*	psig	2,490	2,000
atm		176.1	141.6	

* @ NTP

SHIP	DOT Shipping Name	Helium, Compressed	UN Number	UN 1046	Shipped as
	DOT Classification	2.2 (Non-Flammable Gas)	ECCN #	1C980	Compressed Gas
	DOT Label	NON-FLAMMABLE GAS	Harmonized #	2804.29.0010	

TECHNICAL DATA	Specific Volume	6.06 m ³ /kg
	@NTP	97.1 ft ³ /lb
	CAS No	7440-59-7
	CGA/DISS/JIS	580/718/W22-14L
	Atomic Weight	4.00 g/mol

Critical Temperature	-268.0°C	-450.3°F
Critical Pressure	229 atm	18.5 psia

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
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	SS
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
UA	ULTRA-LINE®	15x51/55/64	6x19/20.5/24	CS	Brass
UF	ULTRA-LINE®	15x51/55/64	6x19/20.5/24	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.



MATHESON

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