

Nitrogen

N₂

Grade	Semicon 5N	ULSI 6N
Purity, %	99.999	99.9999
Oxygen	≤3.0 ppmv	≤200 ppbv
Carbon Dioxide	≤1.0 ppmv	≤100 ppbv
Carbon Monoxide	≤1.0 ppmv	≤200 ppbv
Methane	≤1.0 ppmv	≤100 ppbv
Water	≤3.0 ppmv	≤500 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	49.0	43.8	2.3
	Cylinder Sizes >>		QK	QF/QA/QB	JF/JB
	Content	Liters	8,500	7,220	310
		ft ³	300	255	11
Cylinder Pressure*	psig	2,640	2,490	2,000	
	atm	186.6	176.1	141.6	

* @ NTP

SHIP	DOT Shipping Name	Nitrogen Compressed	UN Number	UN 1066	Shipped as
	DOT Classification	2.2 (Non-Flammable Gas)	ECCN #	EAR99	Compressed Gas
	DOT Label	NON-FLAMMABLE GAS			

TECHNICAL DATA	Specific Volume	0.86 m ³ /kg
	@NTP	13.8 ft ³ /lb
	CAS No	7727-37-9
	CGA/DISS/JIS	580/718/W22-14R
	Molecular Weight	28.01 g/mol

Critical Temperature	-122.4°C	-188.4°F
Critical Pressure	50 atm	711.5 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
QK	ULTRA-LINE®	23.5x140/144/153	9.25x55/56.5/60	CS	SS
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	SS
QA	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	CS	Brass
QB	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	CS	SS
JF	ULTRA-LINE®	10x33/37/46	4x13/14.5/18	CS	SS
JB	ULTRA-LINE II®	10x33/37/46	4x13/14.5/18	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.



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