

Hydrogen



Grade	Semicon 5N	ULSI 6N
Purity, %	99.999	99.9999
Oxygen	≤2.0 ppmv	≤50 ppbv
Nitrogen	≤5.0 ppmv	≤200 ppbv
Carbon Dioxide	≤1.0 ppmv	≤20 ppbv
Carbon Monoxide	≤1.0 ppmv	≤20 ppbv
Methane	≤0.5 ppmv	≤10 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	43.8
	Cylinder Sizes >>		QF/QA
	Content	Liters	6,030
		ft ³	213
	Cylinder Pressure*	psig	2,200
atm		155.7	

* @ NTP

SHIP	DOT Shipping Name	Hydrogen Compressed	UN Number	UN 1049	Shipped as
	DOT Classification	2.1 (Flammable Gas)	ECCN #	1C980	Compressed Gas
	DOT Label	FLAMMABLE GAS	Harmonized #	2804.10.0000	

TECHNICAL DATA	Specific Volume	12.0 m ³ /kg
	@NTP	192 ft ³ /lb
	CAS No	1333-74-0
	CGA/DISS/JIS	350/724/W22-14L
	LFL/UFL (air)	4/74%
	Molecular Weight	2.02 g/mol

Critical Temperature	-239.9°C	-399.8°F
Critical Pressure	13.2 atm	188.1 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 II®	23x130/134/143	9x51/52.5/56	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

⚠ 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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