

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	133-74-0
	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



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