

# Hydrogen

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## *Need compressed, or various mixtures of hydrogen (H2)?*

**The Aerospace and Shipbuilding** industries use hydrogen for metal sintering and annealing.

**The Oil and Gas industries** Use hydrogen to upgrade heavy crude oils into refined fuels, and help to meet transportation fuel specifications. Hydrogen can also be used to de-sulphurize fuels, to heat-treat metals, and to test for leaks.

**The Metal Fabrication industry** mixes hydrogen with argon as a shielding gas for TIG and plasma welding of stainless steel. Hydrogen can also be combined with oxygen for underwater flame-cutting.

**Environmental Labs and Life Science industries** use H2 carrier gas when performing complex and precise gas chromatography analysis.

**Please see the table below for information and to access safety data sheets on hydrogen available from Central Welding Supply:**

<b>PRODUCT NAME:</b>	<b>CONCENTRATION:</b>	
Hydrogen: Research Grade* >99.9999%  *Available by special order only	Oxygen Water Total Hydrocarbon (as CH4) Nitrogen Carbon Dioxide	< 0.1 ppm < 0.5 ppm < 0.1 ppm < 0.5 ppm < 0.1 ppm
Hydrogen: Ultra High Purity Grade >99.999%	Oxygen Water Total Hydrocarbon (as CH4) Nitrogen CO+CO2	< 1 ppm < 3 ppm < 1 ppm < 5ppm < 2ppm
Hydrogen: Industrial Grade >99.95%	(unanalyzed)	

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**Compressed, Hydrogen comes in a variety of cylinder types and sizes to meet your purity and volume requirements.**

**High Pressure Steel Cylinders**

<b>Size/Name</b>	<b>Cubic Ft*</b>	<b>Width</b>	<b>Height</b>	<b>Weight</b>
21	20 cf	5"	17"	15 lbs
46	40 cf	7"	24"	25 lbs
80	80 cf	7"	33"	47 lbs
125	125 cf	7"	43"	61 lbs
150	150 cf	7.5"	46"	70 lbs
250	250 cf	8.5"	51"	115 lbs
330	300 cf	9"	55"	135 lbs

\*Nominal Capacity N2 @ 70F & 1atm.

**GASES SAFETY DATA SHEETS (SDS)**

**Central Welding Supply Online Resource**

**URL: <http://www.centralwelding.com/sds.html>**

