



HYDROGEN (H₂) CGA-350

A colorless, odorless, flammable compressed gas at high pressure.

Toxicity: Simple Asphyxiant.

Fire Potential: Flammable; burns with an almost invisible flame of low thermal radiation. Easily ignited and flame propagates at a rapid rate.

Flammable Limits: 4-75%

Compatible Materials: Non-corrosive; most common structural materials can be used.

Molecular Weight: 2.02

Specific Volume at 70⁰F and 1 atm: 191.95 ft³/lb

DOT Hazard Class: Flammable Gas (2.1)

DOT ID No.: UN 1049

CAS No.: 1333-74-0

*Batch Analysis or individual Certificate of Analysis Available at additional nominal charge.

HYDROGEN, Research Grade 6.0

Minimum Purity 99.9999%

Order Size	Product Code	Approximate Capacity	Approximate Pressure	Guaranteed Spec. (Molar ppm)
025	04140025S	18 CF.	2000 P.S.I.	O ₂ < 1
244	04140244S	197 CF.	2015 P.S.I.	THC < 0.2
300	04140300S	291 CF.	2400 P.S.I.	H ₂ O < 1

HYDROGEN, Ultra Pure Carrier (U.P.C.) Grade 5.5

Minimum Purity 99.9995%

Order Size	Product Code	Approximate Capacity	Approximate Pressure	Guaranteed Spec. (Molar ppm)
025	04128025S	18 CF.	2000 P.S.I.	O ₂ < 1
244	04128244S	197 CF.	2015 P.S.I.	H ₂ O < 1.0
300	04128300S	291 CF.	2400 P.S.I.	THC < 0.5

HYDROGEN, Ultra High Purity (U.H.P.) Grade 5.0

Minimum Purity 99.999%

Order Size	Product Code	Approximate Capacity	Approximate Pressure	Guaranteed Spec. (Molar ppm)
025	04128025S	18 CF.	2000 P.S.I.	O ₂ < 4
244	04128244S	197 CF.	2015 P.S.I.	THC < 0.5
300	04128300S	291 CF.	2400 P.S.I.	H ₂ O < 2.5

HYDROGEN, Zero Grade 4.7

Minimum Purity 99.997%

Order Size	Product Code	Approximate Capacity	Approximate Pressure	Guaranteed Spec. (Molar ppm)
025	04132025S	18 CF.	2000 P.S.I.	O ₂ < 5
244	04132244S	197 CF.	2015 P.S.I.	THC < 0.5
300	04132300S	291 CF.	2400 P.S.I.	H ₂ O < 3.5



HYDROGEN CONTINUED

HYDROGEN, Pre-Purified Grade 3.5

Minimum Purity 99.99%

Order Size	Product Code	Approximate Capacity	Approximate Pressure	Typical Impurities (Molar ppm)
025	04124025S	18 CF.	2000 P.S.I.	O ₂ < 10
244	04124244S	197 CF.	2015 P.S.I.	Dew Point < -80°F
300	04124300S	291 CF.	2400 P.S.I.	

HYDROGEN, Standard Grade 3.0

Minimum Purity 99.9%

Order Size	Product Code	Approximate Capacity	Approximate Pressure	Typical Impurities (Molar ppm)
025	03020025S	20 CF.	2000 P.S.I.	
244	03020244S	197 CF.	2015 P.S.I.	
300	03020300S	262 CF.	2400 P.S.I.	Dew Point < -70°F

HYDROGEN – BRASS REGULATORS

Product Code	Brand	Style	Delivery Pressure P.S.I.	Description
05390017C	Western	SG-SH-SHSS	0-15, 0-45, 0-50	Single Stage
05390148C	Western	LM-	0-15 Low Flow	Dual Stage General Purpose
05390148C	Western	LMSS-	0-45, 0-100, 0-150	Dual Stage High Purity