

Hydrogen

A colorless, odorless, flammable gas.

Technical Information:	
Chemical Symbol:	H ₂
Molecular Weight:	2.02
Specific Volume:	192 ft ³ /lb (11.9 m ³ /kg)
CAS Registry Number:	1333-74-0

Shipping Information:	
DOT Proper Name:	Hydrogen, Compressed
Hazard Class:	2.1
I.D. Number:	UN 1049
Labels:	Flammable Gas

Grade	Part No.	Purity	Impurity	Specification	Equipment Recommended
6.0 (Research)	HYD-60-XXX	99.9996%	Oxygen Water Nitrogen THC CO ₂ + CO	< 0.2 ppm < 0.5 ppm < 0.3 ppm < 0.1 ppm < 0.1 ppm	300 series brass regulator
5.5	HYD-55-XXX	99.9995%	Oxygen Water Nitrogen Methane Carbon Dioxide Carbon Monoxide	< 0.5 ppm < 2 ppm < 2 ppm < 0.2 ppm < 0.1 ppm < 0.2 ppm	300 series brass regulator
5.0 (Ultra High Purity)	HYD-50-XXX	99.999%	Oxygen Moisture Nitrogen Total Hydrocarbons	< 1 ppm < 3 ppm < 5 ppm < 1 ppm	300 series brass regulator
Zero 4.5	HYD-45-XXX	99.995%	Total Hydrocarbons	< 0.5 ppm	300 series brass regulator
4.0 (Prepurified)	HYD-40-XXX	99.99%	Moisture Oxygen	< 10 ppm < 20 ppm	300 series brass regulator

XXX - Complete the part number with the desired cylinder size listed below. (ie. HYD-50-300)

Standard Cylinder Sizes *	Contents ft ³ /m ³	Cylinder Pressure PSIG	CGA Valve Connection
300	261	2400	350
200	195	2000	350
80	71	2000	350

*Nonstandard cylinder sizes available upon request