PurityPlus® SPECIALTY GASES

Hydrogen

A colorless, odorless, flammable gas.

Technical Information:	
Chemical Symbol:	H_2
Molecular Weight:	2.02
Specific Volume	192 ft³/lb (11.9 m³/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	Purity	Impurity	Specification	Equipment Recommended
PurityPlus 6.0 (Research)	99.9996%	Oxygen Moisture Nitrogen THC CO/CO_2 Total Impurities	< 0.2 ppm < 0.5 ppm < 0.3 ppm < 0.1 ppm < 0.1 ppm < 1 ppm	Regulator with stainless steel bar stock body, SS diaphragm
PurityPlus 5.5 (Chromatograph)	99.9995%	Oxygen Moisture Nitrogen Methane Carbon Dioxide Carbon Monoxide	< 0.5 ppm < 2 ppm < 2 ppm < 0.2 ppm < 0.1 ppm < 0.2 ppm	Regulator with brass bar stock body, SS diaphragm
PurityPlus 5.0 (Ultra High Purity)	99.999%	Oxygen Moisture Nitrogen Total Hydrocarbons	< 1 ppm < 2 ppm < 5 ppm < 0.5 ppm	Regulator with brass bar stock body, SS diaphragm
PurityPlus Zero 4.5	99.995%	Total Hydrocarbons	< 0.5 ppm	Regulator with brass bar stock body, SS diaphragm
PurityPlus 4.0 (Prepurified)	99.99%	Moisture Oxygen	< 10 ppm < 20 ppm	Regulator with brass bar stock body, SS diaphragm
PurityPlus 3.7 (Fuel Cell)	99.97%	Moisture Oxygen Helium N2/Ar Carbon Dioxide Carbon Monoxide Ammonia Total Sulfurs Formaldehyde Formic Acid Total Hydrocarbons (Non-Methane)	< 5 ppm < 5 ppm < 300 ppm < 100 ppm < 2 ppm < 0.2 ppm < 0.1 ppm < 0.004 ppm < 0.01 ppm < 0.2 ppm < 2 ppm	Regulator with brass bar stock body, SS diaphragm

See page 4.1 for PurityPlus Co-Branded Equipment Catalog.

Standard Cylinder Sizes *	Contents ft³/m³	Cylinder Pressure PSIG	CGA Valve Connection
300	261	2400	350
200	195	2000	350
80	71	2000	350

*Nonstandard cylinder sizes available upon request