

Hydrogen



Transportation Information



UN Number: 1049

Shipping Name	Hydrogen, Compressed	Hydrogen, Compressed	Hydrogen, Compressed
Hazard Class	2.1	2.1	2.1
Label	Flammable Gas	Flammable Gas	Flammable Gas

(M)SDS Reference

P-4604

CAS Number

1333 - 74 - 0

General Description

Colorless, odorless, flammable gas.

Product/Grade	Purity	Part Number	Cylinder	N ₂	O ₂	H ₂ O	CO ₂	CO	THC	Ar
Research, 6.0	99.9999%	HY 6.0RS	T, K	0.5	0.1	0.5	0.1	0.1	0.1	0.1
Chromatography, 6.0	99.9999%	HY 6.0CH	T, K,	0.5	0.5	0.5	0.1	0.1	0.1	-
Semiconductor Process, 6.0	99.9999%	HY 6.0SP	T, K	0.5	0.2	0.2	0.1	0.1	0.1	-
Carrier, 5.5	99.9995%	HY 5.5CA	T, K,	3	1	1	0.5	0.5	0.5	-
Semiconductor Process, 5.5	99.9995%	HY 5.5SP	T, K	2	0.5	0.5	0.5	0.5	0.5	-
Ultra High Purity, 5.0	99.999%	HY 5.0UH	T, K, Q	-	1	3	-	-	0.5	-
Semiconductor Process, 5.0	99.999%	HY 5.0SP	T, K	6	2	3	1	1	1	-
Zero, 4.5	99.995%	HY 4.5Z	T, K	-	5	3	-	-	0.5	-
High Purity, 4.5	99.995%	HY 4.5	6K, T, K, Q	-	5	5	-	-	-	-

Concentrations given are ppm by volume unless otherwise specified. Maximum ppm unless otherwise noted.

Section B – Pure Gases

Cylinders

Cylinder Type	Style	Size in (cm)	Connection CGA/DISS	Pressure psig (bar)	Volume lb (kg)	Gross Weight lb (kg)
6K	Ultra High Pressure Steel	51 x 10 (129.5 x 24.4)	703	6000 (460)	484 (13.98)	306 (139)
T	High Pressure Steel	55 x 9.3 (139.7 x 23.5)	350/724	2400 (183)	261 (7.24)	145 (66)
K	High Pressure Steel	51 x 9 (129.5 x 22.9)	350/724	2000 (138)	196 (5.44)	134 (61)
Q	High Pressure Steel	31 x 7 (78.7 x 17.8)	350	2000 (138)	65 (1.80)	65 (30)

Cylinder packs and tube trailers are available upon request.

Equipment Recommendations

Research, 6.0	Valve panel, 4000 series regulator	Ultra High Purity, 5.0	3000 series regulator
Chromatography, 6.0	Valve panel, 4000 series regulator	Semiconductor Process, 6.0	3000 series regulator
Semiconductor Process, 6.0	Valve panel, 4000 series regulator	Carrier, 5.5	2000 series regulator
Carrier, 5.5	3000 series regulator	Semiconductor Process, 5.5	2000 series regulator
Semiconductor Process, 5.5	3000 series regulator	Zero, 4.5	2000 series regulator
		High Purity, 4.5	2000 series regulator