



Product and Package Information

Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content ft ³ /m ³	Regulator Recommendations See Section F, Page 2
HE 6.0SP	6.0	99.9999 %*	AT	239/6.63	700 Series: Semiconductor
	Semiconductor Process Gas	O ₂ < 0.2 ppm H ₂ O < 0.2 ppm CO ₂ < 0.1 ppm CO < 0.1 ppm THC < 0.1 ppm N ₂ < 0.5 ppm H ₂ < 0.1 ppm	AS	135/3.74	400 Series: Non-corrosive
HE 5.5SP	5.5	99.9995 %*	AT	239/6.63	700 Series: Semiconductor
	Semiconductor Process Gas	O ₂ < 0.5 ppm H ₂ O < 0.5 ppm CO ₂ < 0.5 ppm CO < 0.5 ppm THC < 0.5 ppm N ₂ < 2 ppm	K	218/6.05	
HE 5.0SP	5.0	99.999 %*	T	291/8.07	700 Series: Semiconductor
	Semiconductor Process Gas	O ₂ < 2 ppm H ₂ O < 3 ppm CO ₂ < 1 ppm CO < 1 ppm THC < 1 ppm N ₂ < 6 ppm	K	218/6.05	400 Series: Non-corrosive

* Neon free basis.

When ordering, please add the desired cylinder style to the end of the above part number.
Add "D" for DISS connection (HE 6.0SP-**ATD**)

Praxair is a world leader in helium production and purification.

Cylinder Information

Cylinder Style	Connection CGA/DISS	Pressure psig/bar	Gross Weight lb/kg
6K	677	6000/460	308/140
4K	680	4500/310	151/69
3K	680	3500/268	192/87
T	580/ 718	2640/183	146/66
K	580/ 718	2200/154	135/61
AT	580/ 718	2200/154	97/44
AS	580	2000/139	49/22

Products are also available in larger quantities, such as 6-, 12- and 16-pack cylinder clusters as well as dewars and tube trailers.

See page C65 for liquid helium.

See Section E – Medical Gases for Helium – U.S.P. Grade (E25)

Transportation Information
UN Number: 1049


Shipping Name	United States of America	Canada	Mexico
Shipping Name	Hydrogen, Compressed	Hydrogen	Hydrogen, Compressed
Hazard Class	2.1	2.1	2.1
Label	Flammable Gas	Flammable Gas	Flammable Gas

Formula
 H_2
MSDS Reference

P-4604

CAS Number

1333 - 74 - 0

General Description

Colorless, odorless, flammable gas.

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Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content ft ³ /m ³	Regulator Recommendations See Section F, Page 2
HY 6.0RS	6.0 Research	99.9999 %	T	261/7.24	400 Series: Non-corrosive
		O ₂ < 0.1 ppm	K	196/5.44	
		H ₂ O < 0.5 ppm	RB	50L	
		CO ₂ < 0.1 ppm			
		CO < 0.1 ppm			
		THC < 0.1 ppm			
		N ₂ < 0.5 ppm			
		Ar < 0.1 ppm			
HY 5.0MF	5.0 Methanizer FID	99.999 %	T	261/7.24	400 Series: Non-corrosive
		O ₂ < 1 ppm	K	196/5.44	
		H ₂ O < 3 ppm			
		CO ₂ < 5 ppb			
		CO < 5 ppb			
		THC < 0.5 ppm			
		N ₂ < 3 ppm			
HY 5.0UH	5.0 Ultra High Purity	99.999 %	T	261/7.24	400 Series: Non-corrosive
		O ₂ < 1 ppm	K	196/5.44	
		H ₂ O < 3 ppm	Q	65/1.80	
		THC < 0.5 ppm			
HY 4.5TC	4.5 Total Organic Carbon	99.995 %	T	261/7.24	300 Series: Non-corrosive 200 Series: Non-corrosive
		H ₂ O < 5 ppm			
		CO ₂ < 0.1 ppm			
		CO < 0.1 ppm			
		THC < 0.1 ppm			
HY 4.5Z	4.5 Zero	99.995 %	T	261/7.24	300 Series: Non-corrosive 200 Series: Non-corrosive
		H ₂ O < 5 ppm	K	196/5.44	
		THC < 0.5 ppm			

Note: While Praxair has supplied hydrogen for a large variety of fuel cell projects and demonstrations, specifications for commercial fuel cell hydrogen have not been finalized. Please contact your local Praxair representative regarding hydrogen requirements for fuel cell applications.



Product and Package Information

Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content ft ³ /m ³	Regulator Recommendations See Section F, Page 2										
HY 4.5	4.5	99.995 % O ₂ < 5 ppm H ₂ O < 5 ppm	6K	484/13.98	492 Series: Special Purpose										
			3K	322/8.93	492 Series: Special Purpose										
			T	261/7.24	300 Series: Non-corrosive										
			K	196/5.44	200 Series: Non-corrosive										
HY 6.0SP	6.0 Semiconductor Process Gas	99.9999 % O ₂ < 0.2 ppm H ₂ O < 0.2 ppm CO ₂ < 0.1 ppm CO < 0.1 ppm THC < 0.1 ppm N ₂ < 0.5 ppm	AT	234/6.49	700 Series: Semiconductor										
					400 Series: Non-corrosive										
					HY 5.5SP	5.5 Semiconductor Process Gas	99.9995 % O ₂ < 0.5 ppm H ₂ O < 0.5 ppm CO ₂ < 0.5 ppm CO < 0.5 ppm THC < 0.5 ppm N ₂ < 2 ppm	AT	234/6.49	700 Series: Semiconductor					
										400 Series: Non-corrosive					
										HY 5.0SP	5.0 Semiconductor Process Gas	99.999 % O ₂ < 2 ppm H ₂ O < 3 ppm CO ₂ < 1 ppm CO < 1 ppm THC < 1 ppm N ₂ < 6 ppm	K	196/5.44	700 Series: Semiconductor
															400 Series: Non-corrosive
300 Series: Non-corrosive															

When ordering, please add the desired cylinder style to the end of the above part number.

Add "D" for DISS connection (HY 5.5-**ATD**)



Cylinder Information

Cylinder Style	Connection CGA/DISS	Pressure psig/bar	Gross Weight lb/kg
6K	703	6000/460	306/139
3K	695	3500/268	190/86
AT	350/724	2200/153	95/43
T	350	2400/183	145/66
K	350	2000/154	134/61
Q	350	2000/138	65/30
RB	350	1775/122	6/3

See Sections G and H for safety and technical information.

See our extensive line of safety products in Section F.

Product available in larger quantities, 6 and 12 pack cylinder clusters, tube trailers, VPSA, membranes and dewars.

Praxair, your global supplier.

Praxair, your source for technical support.