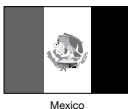


Transportation Information
UN Number: 1046


United States of America



Canada



Mexico

Formula

He

MSDS Reference

P-4602

CAS Number

7440 - 59 - 7

General Description

Colorless, odorless, nonflammable inert gas.

Shipping Name	Helium, Compressed	Helium, Compressed	Helium, Compressed
Hazard Class	2.2	2.2	2.2
Label	Nonflammable Gas	Nonflammable Gas	Nonflammable Gas

Product and Package Information

Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content ft ³ /m ³	Regulator Recommendations See Section F, Page 1
HE 6.0RS	6.0	99.9999%*	T	291/8.07	7000 Series: Semiconductor
	Research/ Chromatographic	O ₂ < 0.1 ppm H ₂ O < 0.2 ppm CO ₂ < 0.1 ppm CO < 0.1 ppm THC < 0.1 ppm N ₂ < 0.4 ppm Ar < 0.5 ppm H ₂ < 0.5 ppm	K	218/6.05	4000 Series: Non-corrosive
HE 5.5EC	5.5	99.9995%*	T	291/8.07	4000 Series: Non-corrosive
	Electron	O ₂ < 1 ppm	K	218/6.05	
	Capture	CO ₂ + CO < 1 ppm	AT	239/6.63	
	Detector	THC < 0.1 ppm N ₂ < 2 ppm Ar < 1 ppm Halocarbons < 500 ppt H ₂ O < 2 ppm	AS	135/3.74	

 The sum of O₂, CO₂, THC as CH₄, N₂ and H₂O < 5 ppm.

A chromatogram of the Halogen and Hydrocarbon analysis is available with each cylinder.

HE 5.5TG	5.5	99.9995%*	T	291/8.07	4000 Series: Non-corrosive
	Trace Analytical	O ₂ < 1ppm CO ₂ + CO < 1 ppm THC < 0.1 ppm N ₂ < 2 ppm Ar < 1 ppm Halocarbons < 500 ppt H ₂ O < 2 ppm	K	218/6.05	

 The sum of O₂, CO₂, THC as CH₄, N₂ and H₂O < 5 ppm.

* Neon free basis.

Product and Package Information

Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content ft ³ /m ³	Regulator Recommendations See Section F, Page 1
HE 5.5LS	5.5 LaserStar	99.9995%* O ₂ < 1 ppm Halocarbons < 50 ppt THC < 0.1 ppm H ₂ O < 1 ppm	AT	239/6.63	4000 Series: Non-corrosive
HE 5.0LS	5.0 LaserStar	99.9995%* O ₂ < 1 ppm THC < 0.5 ppm H ₂ O < 2 ppm	T K	291/8.07 218/6.05	4000 Series: Non-corrosive
HE 5.0MF	5.0 Methanizer FID	99.999 %* O ₂ < 1 ppm H ₂ O < 2 ppm CO ₂ < 1 ppb CO < 1 ppb THC < 0.5 ppm N ₂ < 5 ppm H ₂ < 1 ppm	T K	291/8.07 218/6.05	3000 Series: Non-corrosive
HE 5.0UH	5.0 Ultra High Purity	99.999 %* O ₂ < 1 ppm H ₂ O < 2 ppm THC < 0.5 ppm N ₂ < 5 ppm	T K	291/8.07 218/6.05	3000 Series: Non-corrosive
HE 4.7LS	4.7 Laser	99.997 %* O ₂ < 3 ppm H ₂ O < 3 ppm THC < 1 ppm	T K	291/8.07 218/6.05	3000 Series: Non-corrosive 2000 Series: Non-corrosive
HE 4.6Z	4.6 Zero	99.996 %* THC < 0.5 ppm	T K	291/8.07 218/6.05	3000 Series: Non-corrosive 2000 Series: Non-corrosive
HE 4.6OF	4.6 O ₂ Free	99.996 %* O ₂ < 0.5 ppm	T K	291/8.07 218/6.05	3000 Series: Non-corrosive 2000 Series: Non-corrosive 100 Series: Non-corrosive
HE 4.5	4.5	99.995 %* O ₂ < 5 ppm H ₂ O < 5 ppm	6K 4K 3K T K AS	519/14.39 432/11.98 333/9.23 291/8.07 218/6.05 135/3.74	4092 Series: Special Purpose 4092 Series: Special Purpose 4092 Series: Special Purpose 3000 Series: Non-corrosive 2000 Series: Non-corrosive 100 Series: Non-corrosive

* Neon free basis.

Product and Package Information

Part Number	Product Grade	Quality Assay/ Specification	Cylinder Style	Content ft ³ /m ³	Regulator Recommendations See Section F, Page 1
HE 6.0SP	6.0	99.9999 %*	AT	239/6.63	Valve Panel
	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	7000 Series: Semiconductor 4000 Series: Non-corrosive
HE 5.5SP	5.5	99.9995 %*	T	291/8.07	Valve Panel
	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	7000 Series: Semiconductor
HE 5.0SP	5.0	99.999 %*	T	291/8.07	Valve Panel
	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	7000 Series: Semiconductor 4000 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/ 718	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 C66 for liquid helium.

See Section E – Medical Gases for Helium – U.S.P. Grade (page E37)