



HELIUM He

Colorless, odorless, nonflammable inert gas.

SHIPPING INFORMATION

D.O.T. Proper Shipping Name: Helium, compressed
I.D. Number: UN1046
Hazard Class: 2.2
Shipping Labels: Nonflammable Gas

TECHNICAL INFORMATION

Molecular Weight: 4.0026
Specific Volume: 96.6 ft³/lb.
CAS Registry: 7440-59-7
Safety Data Sheet Reference: Helium

PRODUCT GRADE SPECIFICATIONS

Grade Name	Grade	Minimum Purity	Grade Code	Catalog Number ¹	Maximum Impurity Specifications in PPM by volume (unless otherwise specified) ²				
					O ₂	H ₂ O	THC (as CH ₄)	CO+CO ₂	N ₂
Research	6.0	99.9999%	RES	SG HERES-	0.1	0.2	0.1	0.2	0.5
Ultra Carrier	5.5	99.9995%	UC	SG HEUC-	1	1	0.5	1	2
Lab & Spec	5.5	99.9995%	LSG	SG HELSG-	1	1	0.5		
Ultra High Purity	5.0	99.999%	UHP	SG HEUHP-	2	2	0.5	1	
Laser Shield Ultra	5.0	99.999%	LSU	SG HELSU-	1	2	0.5		
Laser Shield	4.8	99.998%	LS	SG HELS-	3	3	1		
High Purity	4.5	99.995%	HP	SG HEHP-	5	5			

Notes:

¹ Complete the catalog number by selecting cylinder size code using chart below. Except for Disposables, "SG" will be replaced with "DSP".

² Specifications are typical results and are subject to change without notice.

CYLINDER INFORMATION

Cylinder Size	Cylinder Size Code	Volume ³ ft ³	Pressure (PSIG) @ 70° F.	Valve Connection CGA	Gross Weight (lbs.)
Carbon Steel Cylinders					
6K ⁴	6K	496	6000	677	309
3K ⁴	3K	327	3500	680	193
300 ⁵	T	264	2400	580	166
200 ⁵	K	199	2015	580	151
80	Q	68	2015	580	71
35	G	32	2015	580	30
Aluminum Cylinders					
150A	DA	135	2015	580	59
80A	QA	78	2216	580	37
33A	GA	30	2216	580	11
Disposable Non-Refillable Cylinders					
Lecture Bottle	LBX	2	1800	170	4

Notes:

³ This product is sold by the cylinder. Fill volumes are approximate and may vary slightly depending on the cylinder manufacturer's specifications.

⁴ Only available in UHP grades or lower.

Also available in other packaging such as:

- ⁵ High capacity cylinders with special pressure ratings in singles and packs
- 6Packs & 15Packs in select sizes and grades
- Refer to Cryogenic Section for Liquid Helium
- Bulk tube trailers

Contact your WestAir representative about equipment recommendations for this product.