

# Helium

## *Need compressed, liquid and various mixtures of helium (He)?*

Healthcare industry: Liquid helium's super low temperature provides the superconducting magnets in MRIs with the cryogenic temperatures needed to capture high-resolution images.

The Welding and Metal Fabrication industries: He take advantage of the inert properties of helium at arc temperatures when welding materials with high heat conductivity (e.g., aluminum, stainless steel, copper and magnesium alloys).

Environmental Labs and Life Science industries: He is commonly used carrier gas when performing complex and precise gas chromatography analysis. NMR uses Liquid Helium at cryogenic temperature to capture high-resolution images.

Commercial & Recreational Divers: Use various breathing gas mixtures by combining helium with oxygen.

Entertainment: Helium is also a safe choice for the Entertainment applications to inflate balloons.

<b>PRODUCT NAME:</b>	<b>CONCENTRATION:</b>	
Helium Research Grade* >99.9999%	Oxygen Water Total Hydrocarbons (as CH <sub>4</sub> ) Nitrogen Oxygen Carbon Monoxide/Carbon Dioxide	< 0.1 ppm < 0.2 ppm < 0.1 ppm < 0.4 ppm < 0.1 ppm < 0.2 ppm
*Available by special order only		
Helium UPC Grade >99.9995%	Oxygen Water Total Hydrocarbons (as CH <sub>4</sub> ) Nitrogen Carbon Monoxide/Carbon Dioxide	< 1 ppm < 1 ppm < 0.5 ppm < 1 ppm < 1 ppm
Helium Ultra High Purity Grade >99.999%	Oxygen Water Total Hydrocarbon (as CH <sub>4</sub> ) Nitrogen Carbon Monoxide/Carbon Dioxide	< 2 ppm < 1 ppm < 0.5 ppm < 5 ppm < 1 ppm
Helium Industrial Grade >99.998%	Oxygen Water	< 5 ppm < 3 ppm

Please see the table below for information and to access safety data sheets on helium gas available from Central Welding Supply.

Compressed, liquid and mixed helium comes in a variety of cylinder types and sizes to meet your purity and volume requirements.

### High Pressure Steel Cylinders

Size/Name	Cubic Ft*	Width	Height	Weight
21	20 cf	5"	17"	15 lbs
46	40 cf	7"	24"	25 lbs
80	80 cf	7"	33"	47 lbs
125	125 cf	7"	43"	61 lbs
150	150 cf	7.5"	46"	70 lbs
250	250 cf	8.5"	51"	115 lbs
330	300 cf	9"	55"	135 lbs

\*Nominal Capacity N2 @ 70F & 1atm.

#### **GASES SAFETY DATA SHEETS (SDS)**

**Central Welding Supply Online Resource**

**URL: <http://www.centralwelding.com/sds.html>**

