



## 5n Helium Cylinder Gas For Cryogenic Superconductivity Research

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: He
- Minimum Order Quantity: 1 Piece
- Price: US \$300/PC
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 3000 Pcs/Month



### Product Specification

- Product Name: Helium Gas
- Purity: 99.9%-99.999%
- Formular: He
- Appearance: Colorless Gas
- Filling Pressure: 150 Bar-200 Bar
- Transport Package: He Cylinder
- Specification: 40L, 47L, 50L
- Trademark: CMC
- Origin: China
- HS Code: 28042900
- CAS No.: 7440-59-7
- Formula: He
- EINECS: 231-168-5
- Constituent: Industrial Pure Air
- Grade Standard: Industrial Grade



### More Images



## Product Description

### 5n Helium Cylinder Gas for Cryogenic & Superconductivity Research Helium

Helium gas is a colorless, odorless, and tasteless gas that belongs to the noble gases group on the periodic table. It is the second lightest element in the universe, after hydrogen, and has the atomic number 2. The symbol for helium is He.

Properties of Helium Gas:

Boiling Point: -268.93 degrees Celsius (-452.07 degrees Fahrenheit)

Melting Point: -272.20 degrees Celsius (-457.96 degrees Fahrenheit)

Density: 0.1785 grams per liter

Atomic Weight: 4.0026 atomic mass units

Atomic Radius: 31 picometers

Helium is known for its low density, which makes it lighter than air. It is often used to fill balloons, airships, and blimps, as it provides buoyancy.

Due to its inert nature, helium is considered non-reactive, meaning it does not easily combine with other elements or undergo chemical reactions.

This property makes it safe to use in various applications.

Applications of Helium Gas:

**Balloons and Airships:** Helium is commonly used to fill balloons for parties, celebrations, and scientific experiments. It is also used to provide lift in airships and blimps.

**Cooling Agent:** Helium is utilized as a cooling medium in various industrial and scientific applications, such as cooling superconducting magnets in magnetic resonance imaging (MRI) machines, particle accelerators, and nuclear reactors.

**Welding and Leak Detection:** Helium is used as a shield gas in welding applications, as it prevents oxidation and contamination. It is also employed for leak detection in various systems, such as pipelines and refrigeration systems, due to its low viscosity and ability to diffuse rapidly.

**Cryogenics:** Helium is used in cryogenic applications, especially in the field of scientific research and medicine. It is essential for cooling and maintaining low temperatures in superconducting materials and equipment.

**Breathing Mixtures:** Helium-oxygen mixtures are used in deep-sea diving and medical treatments, particularly for individuals with respiratory conditions. These mixtures help prevent the harmful effects of breathing high-pressure gases at extreme depths.

**Gas Chromatography:** Helium is commonly used as the carrier gas in gas chromatography, a technique used for separating and analyzing chemical compounds in various industries and laboratories.

It's important to note that helium is a finite resource on Earth. While it is abundant in the universe, it is relatively scarce on our planet. As a result, it is essential to use helium efficiently and consider recycling and conservation methods to ensure its availability for future generations.

#### Basic Info.

DOT Class	2.2	Un Number	1963
Cylinder Standard	DOT/ISO/GB	Cylinder Pressure	15MPa/20MPa
Valve	Qf-2/Cga580	Melting Point	-272.2 °C
Appearance	Colorless, Odorless	Boiling Point	-272.2 °C
Density	0.1786 Kg/M3	Molecular Weight	4.0026
Transport Package	40L, 47L, 50L	Specification	99.999%, 99.9999%
Trademark	CMC	Origin	Suzhou, China
HS Code	28042900	Production Capacity	20,000 Tons/Yea





**Specification:**

Specification Company Standard	
He	$\geq 99.999\%$
N <sub>2</sub>	$\leq 2.0$ ppm
O <sub>2</sub> +AR	$\leq 1.0$ ppm
H <sub>2</sub>	$\leq 1.0$ ppm
CO	$\leq 0.5$ ppm



CO2 ≤ 0.5 ppm  
 Ne ≤ 1.0 ppm  
 CH4 ≤ 0.5 ppm  
 Moisture ≤ 0.5 ppm

## Company Profile



Shanghai Kemike Chemical Co., Ltd is staffed by trained personnel, combine many years experience in Gas industry .We supply cylinder gas, electronic gas, etc ., and the gas holder, panel, valves and fittings and other equipment, parts and engineering services to our customers in China and worldwide; The products are involved in various industrial fields, such as semiconductor chip, solar cell, LED, TFT-LCD, optical fiber, glass, laser, medicine , etc.,. Our mission is to partner with our global customers to provide support, solutions and quality products that are innovative, reliable, and safe. Our products mainly include: H<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, propane, acetylene, helium, laser mixed gas, SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, SiHCl<sub>3</sub>, SiCl<sub>4</sub>, NH<sub>3</sub>, CF<sub>4</sub>, NF<sub>3</sub>, SF<sub>6</sub>, HCL, N<sub>2</sub>O, doping mixed gas (TMB, PH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>) and other electronic gases.


SiCl <sub>4</sub>	NH <sub>3</sub>	NH <sub>3</sub>	CH <sub>3</sub> F	SiH <sub>4</sub>	Kr	H <sub>2</sub> S	WF <sub>6</sub>	F <sub>6</sub> +Cl <sub>2</sub>
4MS	C <sub>3</sub> F <sub>8</sub>	C <sub>3</sub> F <sub>8</sub>	TEOS	CH <sub>4</sub>	PH <sub>3</sub>	SF <sub>6</sub>	C <sub>2</sub>	HCl+Ne
CF <sub>4</sub>	C <sub>4</sub> F <sub>8</sub>	SiH <sub>2</sub>						TMB+H <sub>2</sub>
SiF <sub>4</sub>	C <sub>3</sub> H <sub>8</sub>	Cl <sub>2</sub>						He +As
BBr <sub>3</sub>	C <sub>3</sub> H <sub>6</sub>	DCE						Ge+Se
POCl <sub>3</sub>	N <sub>2</sub>	SO <sub>2</sub>						D+B
BCl <sub>3</sub>	D <sub>2</sub>	CO <sub>2</sub>						CO+NO
SiHCl <sub>3</sub>	CH <sub>2</sub> F <sub>2</sub>	HF						Ar+O <sub>2</sub>
TMAI	DMZn	DEZn						Xe+NO
			AsH <sub>3</sub>	C <sub>2</sub> H <sub>4</sub>	C <sub>2</sub> H <sub>2</sub>	HBr	COS	
			GeH <sub>4</sub>	C <sub>2</sub> H <sub>6</sub>	B <sub>2</sub> H <sub>6</sub>	H <sub>2</sub> Se	GeCl <sub>4</sub>	



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