Cylinder Gas Helium Used In Cryogenics Welding Applications

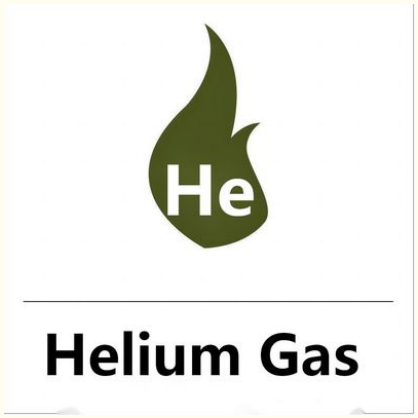
Our Product Introduction

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



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Our Product Introduction

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Product Description

Cylinder gas used in cryogenics welding applications Helium

Helium gas is a chemical element with the symbol He and atomic number 2. It is the second lightest and second most abundant element in the universe. Here are some key points about helium gas:

Chemical Symbol: He

Atomic Number: 2

Atomic Weight: 4.0026 g/mol

Physical Properties: Helium is a colorless, odorless, and tasteless gas at standard conditions. It is the least dense gas and has a lower density than air. Helium has a boiling point of -268.93 degrees Celsius (-452.07 degrees Fahrenheit) and a melting point of -272.2 degrees Celsius (-457.96 degrees Fahrenheit).

Abundance and Occurrence: Helium is the second most abundant element in the universe after hydrogen. However, it is relatively scarce on Earth. It is primarily obtained from natural gas deposits where it accumulates as a result of radioactive decay. Helium is often extracted during natural gas production.

Applications: Helium gas has various applications in different fields. One of its most well-known uses is for filling balloons and airships due to its low density and non-flammability. Helium is also used in cryogenics for cooling superconducting magnets in magnetic resonance imaging (MRI) machines and other scientific equipment. It is utilized in welding applications, as a shielding gas to prevent oxidation of metal during the welding process. Helium is also used in certain breathing mixtures for deep-sea diving and as a carrier gas in gas chromatography.

Liquid Helium: Helium can exist as a liquid at extremely low temperatures. Liquid helium is used in research laboratories for cooling superconducting materials, studying low-temperature physics, and operating superconducting magnets.

Helium-3 and Helium-4: Helium has two stable isotopes, helium-3 and helium-4. Helium-4 is the most common isotope, accounting for more than 99.9% of naturally occurring helium. Helium-3 is much rarer and has unique properties that make it useful in certain scientific and medical applications, such as neutron detection and nuclear magnetic resonance (NMR) spectroscopy.

Safety Considerations: Helium gas is generally considered to be non-toxic and does not pose any significant health hazards. However, as with any gas, inhaling excessive amounts of helium can lead to asphyxiation due to the displacement of oxygen in the air.

Conservation: Helium is a non-renewable resource, and its availability is limited. Due to its importance in various scientific, medical, and industrial applications, there have been efforts to conserve and recycle helium to ensure its availability for future use.

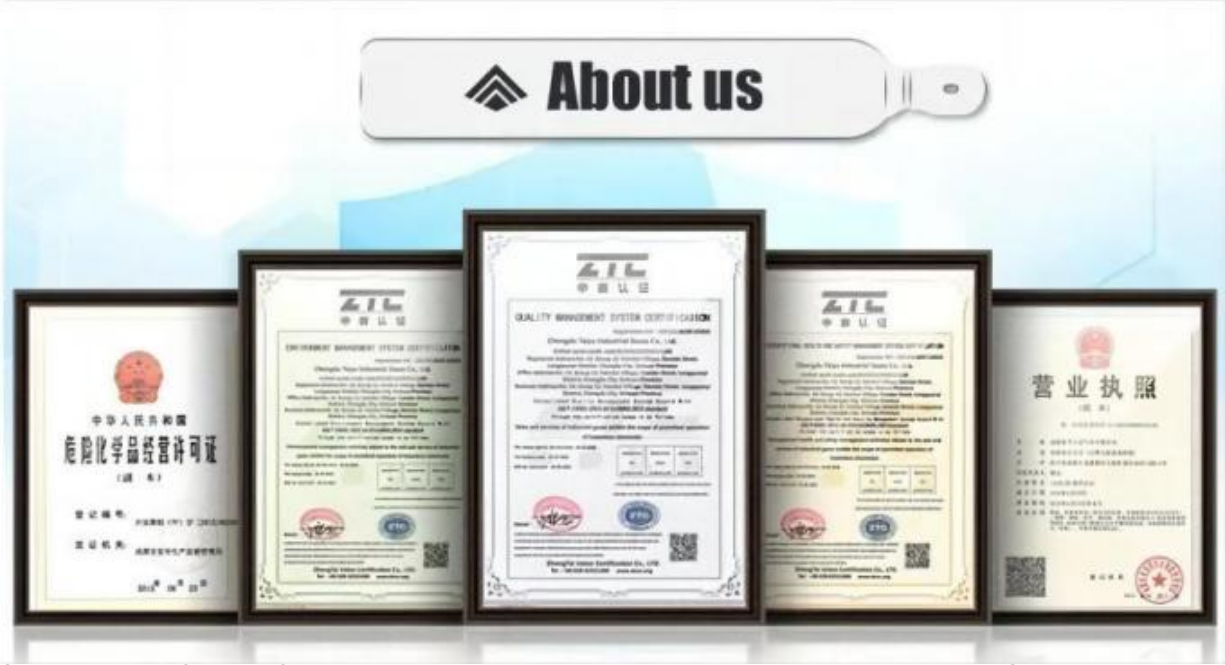
Basic Info.

DOT Class	2.2	Un Number	1963
Cylinder Standard	DOT/ISO/GB	Cylinder Pressure	15MPa/20MPa
Valve	Qf-2/Cga580	Melting Point	-272.2 ºC
Appearance	Colorless, Odorless	Boiling Point	-272.2 ºC
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	≥ 99.999%
N2	≤ 2.0 ppm
O2+AR	≤ 1.0 ppm
H2	≤ 1.0 ppm
CO	≤ 0.5 ppm
CO2	≤ 0.5 ppm
Ne	≤ 1.0 ppm
CH4	≤ 0.5 ppm
Moisture	≤ 0.5 ppm

Company Profile



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Our products mainly include: H2, O2, N2, Ar, CO2, propane, acetylene, helium, laser mixed gas, SiH4, Sih2cl2, SiHCL3, SiCL4, NH3, CF4, NF3, SF6, HCL, N2O, doping mixed gas (TMB, PH3, B2H6) and other electronic gases.

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