Cylinder Gas Factory Supply semiconductor high purity 99.999% Pure Xenon

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Xe
- Minimum Order Quantity: 1kg
- Price: US $ 15/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 2000 Pcs/Month

Product Specification

- Product Name: Xenon Gas
- Pressure: 12.5MPa
- Purity: 99.999%
- Cylinder: 8L/10L/50L
- Transport Package: 8L/10L/50L
- Specification: 8L/10L/50L 99.999%
- Trademark: CMC
- Origin: China
- Supply Ability: 2000piece/Month
- CAS No.: 7440-63-3
- Formula: Xe
- EINECS: 231-172-7
- Constituent: Industrial Pure Air
- Grade Standard: Electronic Grade, Industrial Grade
- Chemical Property: Combustion-Supporting Gas

More Images

Product Description

Product Description

Xenon gas, symbolized as Xe, is an element found in the periodic table with atomic number 54. It is a noble gas belonging to Group 18. Xenon is a colorless, odorless, and dense gas at standard conditions. Here are some key points about xenon gas:

Chemical Symbol: Xe

Atomic Number: 54

Atomic Weight: 131.29 g/mol

Physical Properties: Xenon is a colorless and odorless gas. It is denser than air and has a density of approximately 5.894 grams per liter at 0 degrees Celsius and 1 atmosphere of pressure. Xenon has a boiling point of -108.12 degrees Celsius (-162.42 degrees Fahrenheit) and a melting point of -111.79 degrees Celsius (-169.22 degrees Fahrenheit).

Abundance and Occurrence: Xenon is a relatively rare gas on Earth, making up only a trace amount (about 0.0000087%) of the atmosphere. It is obtained as a byproduct during the fractional distillation of liquid air.

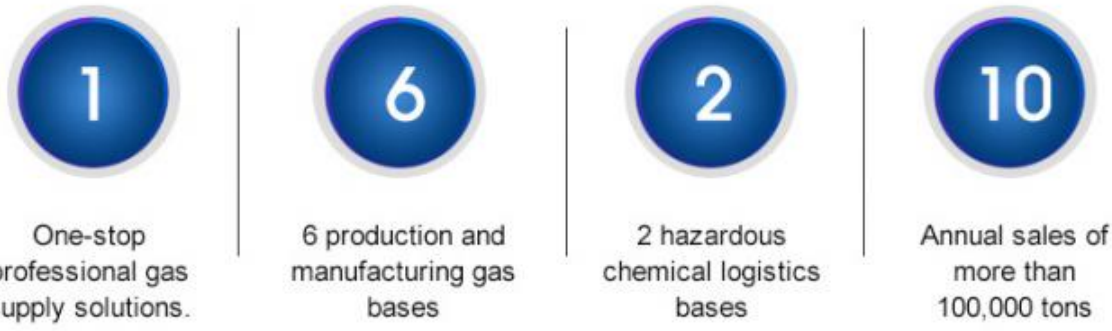
Applications: Xenon gas has various applications in different fields. It is commonly used in lighting, such as in high-intensity discharge (HID) lamps, which are used for automotive headlights, movie projectors, and specialized lighting applications. Xenon is also used in specialized lamps for photography, scientific research, and industrial applications. Additionally, xenon is used in certain medical imaging techniques, such as xenon computed tomography (CT) scans, as a contrast agent for imaging the lungs.

Nuclear Applications: Xenon-133, one of the isotopes of xenon, is used in nuclear medicine for lung ventilation studies. Xenon-135, another isotope, is a neutron-absorbing material and can be used in nuclear reactors for controlling nuclear chain reactions.

Excimer Lasers: Excimer lasers, which produce intense and short laser pulses in the ultraviolet region, often use xenon as a lasing medium. Xenon gas is excited by an electrical discharge to produce laser light.

Cryogenics: Xenon can be used as a cryogenic refrigerant due to its low boiling point. It is used in applications that require extremely low temperatures, such as cooling superconducting magnets, detectors, and scientific experiments.

Safety Considerations: Xenon gas is generally considered to be non-toxic and is not known to have any adverse health effects. However, as with any compressed gas, proper handling, storage, and ventilation are still important to ensure safety.



Product Parameters

Product Name	Xenon
Molecular Formula	Xe
CAS	7440-63-3
EINECS No.	231-172-7
Grade	Electron Grade, Industrial Grade
Place Of Origin	Jiangsu, China
Purity	99.999%- 99.9999%-

Hazard Class	2.2
Molecular Weight	131.29
UN	2036
Boiling Point(ºC)	(-108.13°C)
Packing Detail	Cylinder: 50L(DOT) Valve:CGA580

Specification:

Dot Class: 2.2
State: Gas
Purity: 99.999%
UN NO: UN2036
CAS NO: 7740-63-3
Grade Standard: Industrial Grade

Usage Typical Application:

In the semiconductor process:
xenon is used in medical, light bulb, electronic, and excimer lasers and for ion propulsion. Tantalum has a high molecular weight and is used as a window insulation to reduce heat loss due to convection between the glass sheets.

In electronic industry:
The light spectrum of XENON is much wider than NEON or KRYPTON. Due to its high brightness, it is used in high-intensity aviation lamps, high-efficiency incandescent bulbs on automobiles, plasma display panels, operating rooms and UV lasers.

Application: 1.In the semiconductor process xenon is used in medical, light bulb, electronic, and excimer lasers and for ion propulsion. Tantalum has a high molecular weight and is used as a window insulation to reduce heat loss due to convection between the glass sheets 2.In electronic industry The light spectrum of XENON is much wider than NEON or KRYPTON. Due to its high brightness, it is used in high-intensity aviation lamps, high-efficiency incandescent bulbs on automobiles, plasma display panels, operating rooms and UV lasers.

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