Factory Supplied China Good Quality Cylinder Gas Sf6 Gas Sulfur Hexafluoride

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: SF6
- Minimum Order Quantity: 1kg
- Price: US $ 9.5/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 5000 Tons/Year

Product Specification

- Product Name: Sulfur Hexafluoride
- Appearance: Colorless, Odorless
- Valve: Qf-2, Cga590
- Boiling Point: 12.5ºC
- Melting Point: -107.3ºC
- Cylinder Standard: DOT/ISO/GB
- Cylinder Pressure: 15MPa/20MPa
- Model No.: Sulfur Hexafluoride
- Specification: 40L, 47L, 50L, 500L
- Trademark: CMC
- Origin: China
- HS Code: 28129019
- Supply Ability: 5000tons/Year
- CAS No.: 2551-62-4
- Formula: Sf6

More Images

Product Description

Product Description

SF6 refers to sulfur hexafluoride, which is a chemical compound composed of one sulfur atom bonded to six fluorine atoms. Here are some key points about SF6:

Chemical Formula: SF6

Molecular Weight: 146.06 g/mol

Structure: SF6 has a central sulfur atom surrounded by six fluorine atoms, resulting in an octahedral molecular geometry.

Physical Properties: Sulfur hexafluoride is a colorless, odorless, non-flammable, and non-reactive gas at standard temperature and pressure. It has a high density and is significantly heavier than air. SF6 is insoluble in water but highly soluble in organic solvents.

Applications: SF6 has several important applications in various industries:

Electrical Industry: SF6 is widely used as an insulating gas in high-voltage electrical equipment like circuit breakers, switchgear, and transformers. It provides excellent electrical insulation and arc-quenching properties.

Medical Applications: SF6 is sometimes used as a contrast agent in medical imaging procedures, such as ultrasound examinations of the gastrointestinal tract.

Tracer Gas: Due to its low reactivity and stability, SF6 is used as a tracer gas in various applications, including leak detection, air quality studies, and ventilation system testing.

Industrial Processes: SF6 is used in some industrial processes, such as the manufacturing of semiconductors and magnesium casting, where its non-reactive nature and high density are advantageous.

Environmental Impact: SF6 is a potent greenhouse gas with a high global warming potential (GWP). Its long atmospheric lifetime contributes to the accumulation of greenhouse gases in the atmosphere. Due to concerns about its environmental impact, there are efforts to reduce and regulate the use of SF6 in certain applications.

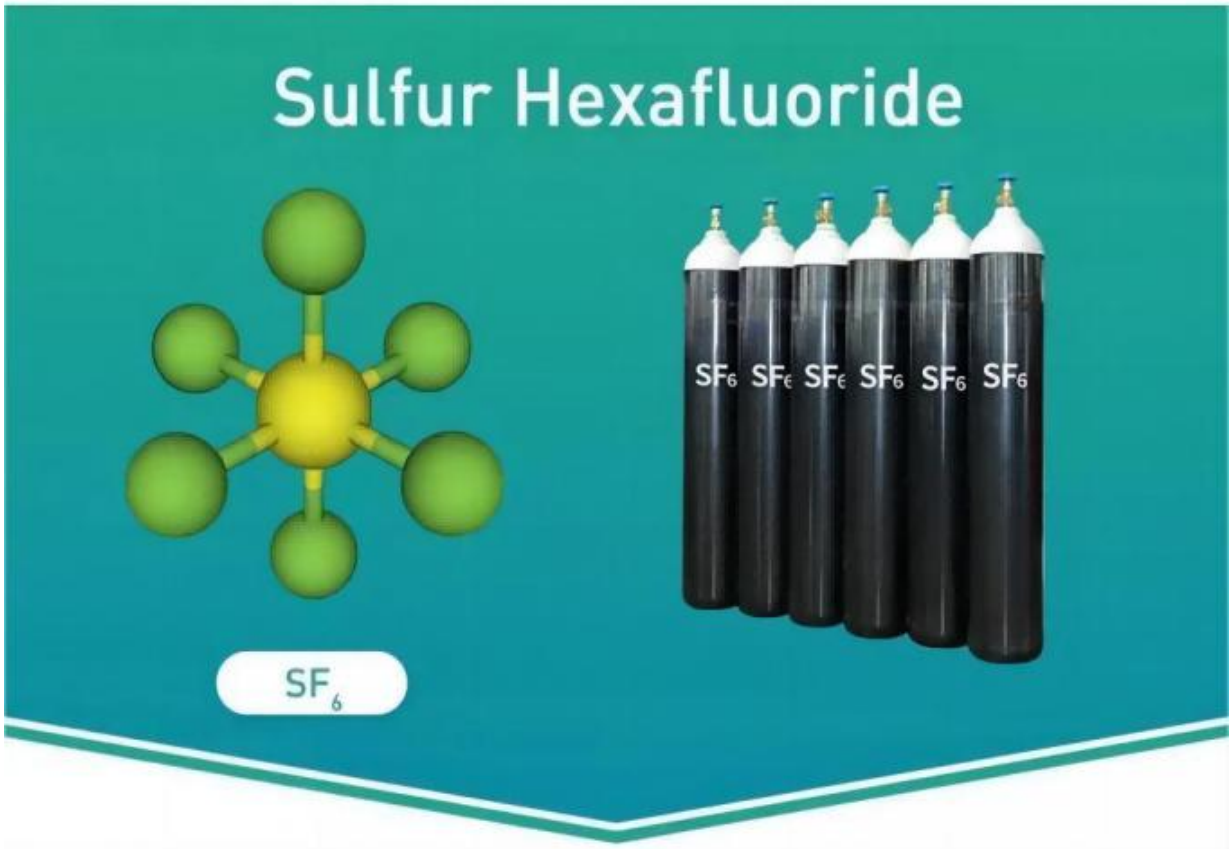
Safety Considerations: SF6 is non-toxic and does not pose significant health risks when handled properly. However, it is essential to follow appropriate safety precautions, such as using adequate ventilation and personal protective equipment, when working with or around SF6 due to its high density and potential as an asphyxiant in confined spaces.

Regulation: SF6 is subject to regulations and reporting requirements in some regions due to its high GWP. International agreements, such as the Kyoto Protocol and the Paris Agreement, aim to reduce the use and emissions of SF6 to mitigate climate change

Basic Info.

DOT Class	2.2	Un Number	Un 1080
Cylinder Standard	DOT/ISO/GB	Cylinder Pressure	15MPa/20MPa
Valve	Qf-2, Cga590	Melting Point	-50.8 ºC
Appearance	Colorless, Odorless	Boiling Point	-63.8 ºC
Density	6.0886 Kg/M³	Molecular Weight	146.05
Transport Package	40L, 47L, 50L, 500L	Specification	99.995%, 99.999%
Trademark	CMC	Origin	China
HS Code	28129019	Production Capacity	5000tons/Year

PRODUCT



Specifications	Company Standard
SF6	≥ 99.995%
Air	≤ 10 ppm
CF4	≤ 2 ppm
C2F6	≤ 20 ppm
C3F8	≤ 5 ppm
Low Sulfide	Not Detected
H2O	≤ 1 ppm
Acidity as HF	≤ 0.1 ppm
Hydrolysable Fluor ides as HF	≤ 0.3 ppm
Mineral Oil	≤ 1 ppm

APPLICATION

① Dielectric medium:

SF6 is used in the electrical industry as a gaseous dielectric medium for high-voltage circuit breakers, switchgear, and other electrical equipment, often replacing oil filled circuit breakers (OCBs) that can contain harmful PCBs.

② Tracer compound:

Sulfur hexafluoride was the tracer gas used in the first roadway air dispersion model calibration,It has been used successfully as a tracer in oceanography to study diapycnal mixing and air-sea gas exchange.

Detailed Photos

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