China hot sell Supply best pirce high purity SF6 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
- Melting Point: -50.8 ºC
- Appearance: Colorless, Odorless
- Boiling Point: -63.8 ºC
- Cylinder Standard: DOT/ISO/GB
- Transport Package: Bottle
- Specification: DOT/ISO/GB
- Trademark: CMC
- Origin: China
- HS Code: 28129019
- Supply Ability: 5000tons/Year
- CAS No.: 2551-62-4
- Formula: Sf6
- EINECS: 219-854-2
- Constituent: Industrial Pure Air

More Images

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 octahedral molecular geometry, with the sulfur atom at the center and six fluorine atoms arranged around it.

Physical Properties: Sulfur hexafluoride is a colorless, odorless, and non-flammable gas. It is highly stable and chemically inert. It has a very high density, making it significantly heavier than air.

Insulating Properties: SF6 is widely used as an electrical insulating gas in high-voltage equipment such as circuit breakers, transformers, and switchgear. Its excellent insulating properties allow for compact designs and efficient operation of electrical systems.

Dielectric Properties: SF6 has excellent dielectric strength, which means it can withstand high electric field strengths without breaking down. This property makes it useful for applications in high-voltage power transmission and distribution systems.

Environmental Impact: SF6 is a potent greenhouse gas with a high global warming potential (GWP). It has an atmospheric lifetime of up to 3,200 years, contributing to the accumulation of greenhouse gases in the atmosphere. Due to its environmental impact, efforts are being made to reduce the use and emissions of SF6 in various industries.

Safety Considerations: SF6 is non-toxic under normal conditions. However, at high temperatures or in the presence of electrical discharges, it can decompose and produce toxic byproducts such as sulfur dioxide and hydrogen fluoride. Proper handling, storage, and disposal procedures should be followed to ensure safety.

Other Applications: SF6 is used in some medical applications, such as in retinal detachment surgery, where it is injected into the eye to temporarily replace the vitreous humor. It is also used in the semiconductor industry in plasma etching processes.

Regulations: The use and handling of SF6 are subject to regulations and restrictions in many countries due to its environmental impact. Efforts are being made to find alternative gases with lower environmental impact for electrical insulation applications.

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

Specifications:

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.

Product Pictures

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: 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.

SiCl4	NH3	NH3	CH3F	SiH4	Kr	H2S	WF6	F6+Cl2
4MS	C3F8	C3F8	TEOS	CH4	PH3	SF6	C2	HCl+Ne
CF4	C4F8	SiH2						TMB+H2
SiF4	C3H8	Cl2						He +As
BBr3	C3H6	DCE						Ge+Se
POCl3	N2	SO2						D+B
BCl3	D2	CO2						CO+NO
SiHCl3	CH2F2	HF	AsH3	C2H4	C2H2	HBr	COS	Ar+O2
TMAl	DMZn	DEZn	GeH4	C2H6	B2H6	H2Se	GeCl4	Xe+NO

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