Hot Sale Cylinder Gas 99.9999% 6n High Purity Sih4 Gas Silane

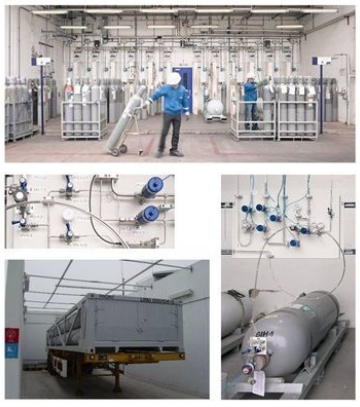
Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: sih4
- Minimum Order Quantity: 1kg
- Price: US $ 1/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 50000kg/month

Product Specification

- Product Name: Silane
- Melting Point: -185 ºC
- Appearance: Colorless, Garlic Smell
- Boiling Point: -112 ºC
- Cylinder Pressure: 12.5MPa/15MPa/20MPa
- Valve: Diss632
- Cylinder Standard: GB/ISO/DOT
- Transport Package: Y-Cylinder, T-Drum, Tt, Tanker
- Specification: 20L, 40L, 280L And Customizable
- Trademark: CMC
- Origin: China
- HS Code: 2812190091
- Supply Ability: 50000kg/Month
- CAS No.: 7803-62-5
- Formula: Sih4



More Images

Product Description

Product Description

Silane refers to a group of chemical compounds containing silicon and hydrogen atoms. The most common and simplest form of silane is monosilane (SiH4). Here are some key points about silane:

Structure: Silane compounds consist of a silicon atom bonded to hydrogen atoms. Monosilane (SiH4) has a tetrahedral structure, with the silicon atom at the center and four hydrogen atoms surrounding it.

Properties: Silane is a colorless, flammable gas with a pungent odor. It is less dense than air and can form explosive mixtures with air when exposed to certain conditions. Silane is highly reactive and can react with oxygen, water, and other compounds.

Production: Silane can be produced through various methods, including the reaction of silicon with hydrogen or the decomposition of silicon-containing compounds. Industrial-scale production of silane often involves the reaction of metallurgical-grade silicon with hydrogen chloride.

Applications: Silane has several applications in various industries:

Semiconductor Industry: Silane is used as a precursor in the production of silicon-based materials, such as silicon wafers and thin-film silicon solar cells. It is an important source of silicon for the deposition of amorphous and polycrystalline silicon films.

Chemical Industry: Silane derivatives are used as coupling agents and adhesion promoters in the formulation of coatings, adhesives, and sealants. They can improve the bonding between different materials, such as glass, metal, and plastics.

Electronics Industry: Silane is utilized in the manufacturing of electronic components, such as integrated circuits and flat-panel displays. It is involved in the deposition of silicon-based thin films for insulation and passivation purposes.

Solar Energy: Silane is employed in the production of silicon-based photovoltaic cells, which are used to convert sunlight into electricity.

It's worth noting that silane is a highly reactive and potentially hazardous compound, requiring careful handling and storage due to its flammability and reactivity.

Basic Info.

DOT Class	2.1	Un No	2203
Cylinder Standard	GB/ISO/DOT	Cylinder Pressure	15MPa/20MPa
Valve	Diss632	Melting Point	-185 ºC
Appearance	Colorless, Garlic Smell	Boiling Point	-112 ºC
Density	1.34 Kg/m³	Molecular Weight	32.117
Transport Package	47L/440L/ISO Tank	Specification	99.9999%
Trademark	CMC	Origin	China
HS Code	2931900090	Production Capacity	20, 000tons/Year

Specification:

CAS No.: 7803-62-5
EINECS No.: 232-263-4
UN No.: UN2203
Purity: 99.9999%
Dot Class: 2.1
Appearance: Colorless
Grade Standard: Electronic Grade

Specification	99.9999%
Carbon Monoxide	≤ 0.05 ppm
Carbon Dioxide	≤ 0.05 ppm
Total chloride	≤ 0.1 ppm
Methane	≤ 0.05 ppm
C2-C4	≤ 0.1 ppm
Nitrogen	≤ 0.5 ppm
Oxygen	≤ 0.05 ppm
Moisture	≤ 0.1 ppm
Silyl Ether	≤ 0.1 ppm
Methyl Silane	≤ 0.1 ppm
Disilane	≤ 0.3 ppm
Hydrogen	≤ 20 ppm
Aluminum	≤ 0.02 ppba
Antimony	≤ 0.02 ppba
Arsenic	≤ 0.02 ppba
Gallium	≤ 0.02 ppba
Boron	≤ 0.02 ppba
Phosphorus	≤ 0.02 ppba
Iron + Chromium + Nickel + Copper + Zinc	≤ 1 ppba

Packaging & Shipping

Cylinder Specifications		Contents
Cylinder Capacity	Valve	Weight
47L	DISS632	10 kgs
440L	DISS632	120 kgs

Company Profile

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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