



China Manufacturer Great Quality Semiconductor Cylinder Sih4 Gas Silane

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: sih4
- Minimum Order Quantity: 1kg
- Price: US \$45/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 50000kg/month

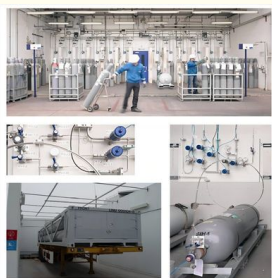


Product Specification

- Product Name: Silane
- Melting Point: -185 °C
- Cylinder Pressure: 12.5MPa/15MPa/20MPa
- Boiling Point: -112 °C
- Model No.: Silane
- Transport Package: 47L/440L/ISO Tank
- Specification: 47L/440L/ISO Tank
- Trademark: CMC
- Origin: China
- HS Code: 2931900090
- Supply Ability: 20, 000tons/Year
- CAS No.: 7803-62-5
- Formula: Sih4
- EINECS: 232-263-4
- Constituent: Industrial Pure Air



More Images



Product Description

Product Description

Silane (SiH_4) is a compound consisting of one silicon atom bonded to four hydrogen atoms. Here are some key points about silane:

Structure: Silane has a tetrahedral molecular structure, with the silicon atom at the center and the four hydrogen atoms bonded to 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 spontaneously ignite in the presence of oxygen.

Production: Silane can be produced through various methods. One common method is the reaction of metallurgical-grade silicon with hydrogen gas at high temperatures. Other methods involve the hydrolysis of silicon halides or the reduction of silicon compounds.

Applications: Silane finds applications in several industries:

Semiconductor Industry: Silane is a key precursor gas used in the deposition of silicon-based thin films, such as silicon dioxide (SiO_2) and amorphous silicon (a-Si), in the manufacturing of integrated circuits and thin-film transistors.

Solar Energy: Silane is used as a precursor gas in the production of silicon-based solar cells. It is involved in the deposition of silicon layers that form the active photovoltaic material.

Chemical Industry: Silane derivatives are used as coupling agents, surface modifiers, and cross-linking agents in various chemical processes. They can improve adhesion, modify surface properties, and enhance the performance of coatings, adhesives, and sealants.

Nanotechnology: Silane is utilized in nanofabrication processes, such as the functionalization of nanoparticles or the modification of nanoscale surfaces.

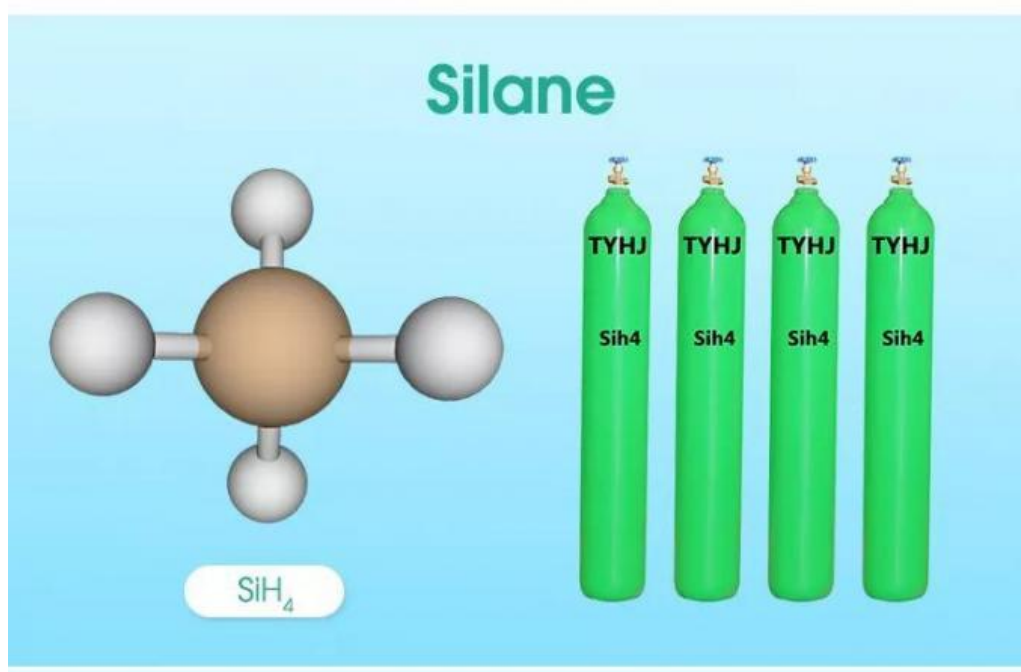
It's important to note that silane is a highly reactive and potentially hazardous compound. Due to its flammability and reactivity, proper safety precautions should be followed when handling, storing, or using silane.

Basic Info.

Model NO.	SiH4	Boiling Point	-112 °C
Density	1.34 Kg/M³	Melting Point	-185 °C
Cylinder Pressure	12.5MPa/15MPa/20MPa	Transport Package	47L/440L/ISO Tank
Specification	47L/440L/ISO Tank	Origin	China
HS Code	2931900090	Production Capacity	20,000tons/Year



Product



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

Detailed Photos



Packaging & Shipping

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

Company

Profile

About us



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.


SiCl ₄	NH ₃	NH ₃	CH ₃ F	SiH ₄	Kr	H ₂ S	WF ₆	F ₆ +Cl ₂
4MS	C ₃ F ₈	C ₃ F ₈	TEOS	CH ₄	PH ₃	SF ₆	C ₂	HCl+Ne
CF ₄	C ₄ F ₈	SiH ₂						TMB+H ₂
SiF ₄	C ₃ H ₈	Cl ₂						He +As
BBr ₃	C ₃ H ₆	DCE						Ge+Se
POCl ₃	N ₂	SO ₂						D+B
BCl ₃	D ₂	CO ₂						CO+NO
SiHCl ₃	CH ₂ F ₂	HF						Ar+O ₂
TMAI	DMZn	DEZn						Xe+NO
AsH ₃	C ₂ H ₄	C ₂ H ₂						
GeH ₄	C ₂ H ₆	B ₂ H ₆						



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