



China high purity 99.9999% High Purity Cylinder 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 \$45/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 50000kg/month

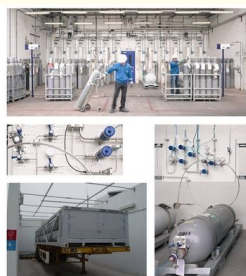


Product Specification

- Product Name: Silane
- Valve: Diss632
- Boiling Point: -112 °C
- Melting Point: -185 °C
- Cylinder Pressure: 12.5MPa/15MPa/20MPa
- Cylinder Standard: GB/ISO/DOT
- Transport Package: Y-Cylinder, T-Drum, T-Cylinder, T-Drum, Tt, Tanker
- Specification: 20L, 40L, 280L And Customizable
- Trademark: CMC
- Origin: Suzhou, 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 that contain silicon and hydrogen atoms. The most common and simplest form of silane is monosilane (SiH_4), which consists of a silicon atom bonded to four hydrogen atoms. Silane is a colorless, flammable gas with a pungent odor.

Here are some key points about silane:

Structure: Silane has a tetrahedral structure, with the silicon atom at the center and the four hydrogen atoms surrounding it. The molecular formula for silane is SiH_4 .

Properties: Silane is highly reactive and can react with oxygen and water. It is pyrophoric, meaning it can ignite spontaneously in the presence of air or oxygen. Silane is also unstable, decomposing at high temperatures.

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

Applications: Silane has several applications in different industries:

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

Chemical Industry: Silane derivatives, such as alkylsilanes and chlorosilanes, are used as coupling agents, adhesion promoters, and surface modifiers in various chemical processes and material formulations.

Solar Energy: Silane is utilized in the production of silicon-based photovoltaic cells, which convert sunlight into electricity. It is used as a precursor gas for the deposition of thin films on solar cell substrates.

Coatings and Sealants: Silane compounds are employed in the formulation of coatings, adhesives, and sealants. They can improve adhesion, durability, and water resistance in various applications.

It's important to handle silane with caution due to its flammability and reactivity. Proper safety measures should be followed when working with silane, including storing it in appropriate containers and using it in well-ventilated areas.

Basic Info.

Model NO.	SiH_4	Boiling Point	-112 °C
Density	1.34 Kg/M ³	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

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 Photo



Packaging & Shipping

Cylinder Specifications Contents

Cylinder Capacity	Valve	Weight
47L	DISS632	10 kgs
440L	DISS632	120 kg

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.

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	HBr	COS	Ar+O ₂			
GeH ₄	C ₂ H ₆	B ₂ H ₆	H ₂ Se	GeCl ₄	Xe+NO			



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