



Semiconductor Industry Usage Cylinder Gas Wf6 Tungsten Hexafluoride

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Wf6
- Minimum Order Quantity: 1 Piece
- Price: US \$ 15/PC
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 200 Tons/Year



Product Specification

- Product Name: Tungsten Hexafluoride
- Purity: 99.999%
- Transport: By Sea
- Appearance: Colorless
- Transport Package: 10L 40L 50L
- Specification: 10L 40L 50L
- Trademark: CMC
- Origin: China
- HS Code: 2812190091
- Supply Ability: 200t/Year
- CAS No.: 7783-82-6
- Formula: Wf6
- EINECS: 232-029-1
- Constituent: Industrial Pure Air
- Grade Standard: Electronic Grade



More Images



Product Description

WF6 refers to tungsten hexafluoride, which is a chemical compound composed of one tungsten atom bonded to six fluorine atoms. Here are some key points about WF6:

Chemical Formula: WF₆

Molecular Weight: 297.84 g/mol

Structure: Tungsten hexafluoride has an octahedral molecular geometry, with the tungsten atom at the center and six fluorine atoms arranged around it.

Physical Properties: Tungsten hexafluoride is a colorless, corrosive gas. It has a strong, pungent odor and is highly reactive.

Chemical Reactivity: WF₆ is a highly reactive compound. It readily reacts with water vapor in the air to form tungsten oxide and hydrogen fluoride. It is also reactive with many other substances, including metals, reducing agents, and organic compounds.

Applications: Tungsten hexafluoride has various applications primarily in the semiconductor industry. It is used as a precursor in the chemical vapor deposition (CVD) process to deposit tungsten films onto semiconductor substrates. These films are essential for the fabrication of thin-film transistors and interconnects in integrated circuits.

Safety Considerations: Tungsten hexafluoride is a toxic and corrosive substance. It can cause severe burns to the skin, eyes, and respiratory tract upon contact. Inhalation of the gas or its decomposition products can be harmful. Strict safety measures and proper protective equipment should be used when handling and working with WF₆.

Storage and Handling: Due to its reactivity and corrosiveness, tungsten hexafluoride is typically stored and handled in specialized containers made of materials resistant to the corrosive effects of the compound, such as nickel or stainless steel.

Environmental Impact: Tungsten hexafluoride is not considered a significant environmental hazard. However, its use and disposal should be in accordance with local regulations and best practices to minimize any potential impact.

Product Spec:

Tungsten Hexafluoride WF6 GAS

CAS No.: 7783-82-6

EINECS No.: 232-029-1

UN No.: UN2196

Purity: 99.999%

Dot Class: 2.3

Appearance: Colorless

Grade Standard: Electron Grade, Industrial Grade

The COA of Product:

Test items	Units	Quality requirements	Test results
CF4	ppm	<0.5	<0.01
O2	ppm	<0.5	<0.01
N2	ppm	<1	0.03
CO	ppm	<0.5	<0.02
CO2	ppm	<0.5	<0.01
SiF4	ppm	<0.5	<0.1
SF6	ppm	<0.5	<0.1
HF	ppm	<5	0.19
Al	ppb	≤10	<0.020
As	ppb	≤10	<0.001
B	ppb	≤10	<0.005
Ca	ppb	≤5	<0.200
Cd	ppb	≤2	<0.001
Cr	ppb	≤10	<0.020
Fe	ppb	≤10	<0.007
K	ppb	≤5	<0.100
Mn	ppb	≤10	<0.001
Na	ppb	≤5	<0.040
Th	ppb	≤0.1	<0.001
Ti	ppb	≤10	<0.002
Li	ppb	≤10	<0.002
U	ppb	≤0.05	<0.001
Zn	ppb	≤10	<0.005
Si	ppb	≤10	<0.100
Pb	ppb	≤10	<0.001
P	ppb	≤2	<0.300
Mg	ppb	≤10	<0.020
Ni	ppb	≤20	<0.030
Cu	ppb	≤5	<0.005
Mo	ppb	≤10	<0.001
Total impurities of other metal	ppb	≤500	<0.0010

Detailed Photos











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						Ar+O2
TMAI	DMZn	DEZn						Xe+NO
AsH3	C2H4	C2H2	HBr	COS	Ar+O2			
GeH4	C2H6	B2H6	H2Se	GeCl4	Xe+NO			



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