



A key precursor in the chemical vapor deposition (CVD) process Gas 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
- Transport: By Sea
- Purity: 99.999%
- Appearance: Colorless
- Model No.: Tungsten Hexafluoride
- Transport Package: Sea Transportation
- Specification: 10L/15kg
- Trademark: CMC
- Origin: Suzhou, China
- HS Code: 2804290000
- Supply Ability: 200t/Year
- CAS No.: 7783-82-6
- Formula: Wf6
- EINECS: 232-029-1
- Constituent: Industrial Pure Air



More Images



Product Description

Product Description

Tungsten hexafluoride gas, also known as WF6, is a compound composed of tungsten (W) and fluorine (F) atoms. It is a colorless, highly reactive, and corrosive gas. Here are some key points about tungsten hexafluoride gas:

Chemical Formula: WF6

Molecular Weight: 297.84 g/mol

Physical Properties: Tungsten hexafluoride is a dense gas with a boiling point of approximately 17.1 °C (62.8 °F) and a melting point of -2.5 °C (27.5 °F). It is soluble in organic solvents such as benzene and carbon tetrachloride.

Reactivity: WF6 is highly reactive and readily reacts with water vapor in the air to form tungstic acid and hydrofluoric acid, which are corrosive. It reacts vigorously with many metals, metal oxides, and metal halides.

Applications: Tungsten hexafluoride gas is primarily used in the semiconductor industry for the deposition of thin films of tungsten during the fabrication of integrated circuits. It is a key precursor in the chemical vapor deposition (CVD) process, which allows the controlled growth of tungsten layers with high purity and uniformity.

Safety Considerations: WF6 is corrosive and toxic. It can cause severe burns upon contact with the skin, eyes, or respiratory system. Proper safety precautions, including the use of appropriate personal protective equipment and handling procedures, should be followed when working with or handling this gas.

Storage and Handling: Tungsten hexafluoride gas is typically stored in high-pressure cylinders or as a liquid under pressure. Specialized storage and handling facilities are required due to its reactivity and corrosiveness.

It's important to note that tungsten hexafluoride gas should be handled by trained professionals in controlled environments, adhering to safety guidelines and regulations to ensure proper usage and prevent accidents or adverse health effects.

Basic Info.

Model NO.	WF6	Transport Package	Cylinder
Specification	10L/15kg	Trademark	CMC
Origin	Suzhou, China	HS Code	2812190091
Production Capacity	200t/Year		

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	
			GeH4	C2H6	B2H6	H2Se	GeCl4	



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