



WF6 Tungsten Film Deposition Semiconductor Industry Usage Cylinder 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
- Appearance: Colorless
- Purity: 99.999%
- Transport Package: Sea Transportation
- Specification: 10L/15kg
- 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: Industrial 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: WF6 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 yellowish-green, volatile, and corrosive liquid at room temperature. It has a strong odor and can form white fumes when exposed to air due to its reaction with moisture.

Uses: WF6 is primarily used in the semiconductor industry for chemical vapor deposition (CVD) processes. It is employed as a precursor in the formation of thin films of tungsten, which are used as conductive and barrier layers in integrated circuits and other electronic components.

Reactivity: Tungsten hexafluoride is highly reactive and reacts readily with water, moisture, and many other compounds. It hydrolyzes in the presence of water to form tungstic acid and hydrofluoric acid, which are corrosive substances.

Safety Considerations: WF6 is highly toxic and corrosive. It can cause severe burns and eye damage upon contact with the skin or eyes. Inhalation of its vapors or fumes can lead to respiratory irritation and lung damage. Proper safety measures, including the use of appropriate protective equipment and ventilation, should be followed when handling and working with WF6.

Storage and Handling: WF6 is typically stored and transported in cylinders or containers made of materials resistant to its corrosive properties, such as stainless steel. Special care should be taken to prevent exposure to moisture, as it can react with water or humidity in the air.

Environmental Impact: WF6 is not considered a significant greenhouse gas or ozone-depleting substance. However, its handling and disposal should be performed in accordance with local regulations and best practices to minimize environmental 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.

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						

