



Metal Organic Chemical Vapor Deposition (MOCVD) Cylinder Gas Tungsten Hexafluoride

Our Product Introduction

for more products please visit us on gascylindertank.com

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 (WF6) is a chemical compound composed of one tungsten atom bonded to six fluorine atoms. It is a volatile, colorless gas at room temperature and atmospheric pressure. WF6 is known for its strong oxidizing properties and is primarily used in the semiconductor industry for chemical vapor deposition (CVD) processes.

Here are a few key points about tungsten hexafluoride gas:

Chemical Formula: WF6

Molecular Weight: 298.84 g/mol

Physical Properties: Tungsten hexafluoride is a dense gas with a boiling point of about 17.1 °C (62.8 °F) and a melting point of -2.8 °C (27 °F). It is highly volatile and readily vaporizes into a gas.

Reactivity: WF6 is a strong oxidizing agent and reacts violently with water, moisture, and most organic compounds. It can release highly corrosive hydrofluoric acid upon contact with water.

Uses: The primary application of tungsten hexafluoride is in the semiconductor industry. It is used as a precursor in the deposition of tungsten films during the manufacturing of integrated circuits (ICs) and other electronic devices. WF6 reacts with hydrogen gas (H2) in a CVD process to deposit tungsten metal on the substrate.

Safety Precautions: Tungsten hexafluoride is highly toxic and corrosive. It can cause severe burns and eye damage upon contact. Proper safety measures, including the use of protective equipment, should be employed when handling this gas.

Environmental Impact: WF6 is not considered an ozone-depleting substance, but it is a potent greenhouse gas with a high global warming potential (GWP). Therefore, its release into the environment should be strictly controlled.

It's important to note that handling WF6 should be left to trained professionals in controlled laboratory or industrial settings due to its hazardous nature.

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

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	HBr	COS	
			GeH ₄	C ₂ H ₆	B ₂ H ₆	H ₂ Se	GeCl ₄	



 **Shanghai Kemike Chemical Co.,Ltd**

 +86 18762990415

 williamchen@cmc-chemical.com

 gascylindertank.com