China

CMC

COA

Wf6

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

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- 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:
- Transport:

Appearance:Model No.:

• Purity:

By Sea 99.999%

Tungsten Hexafluoride

- Colorless
 - Tungsten Hexafluoride

10L/15kg CMC

Suzhou, China

2804290000

200t/Year 7783-82-6

232-029-1

Industrial Pure Air

Wf6

Sea Transportation

- Transport Package:
- Specification:
- Trademark:
- Origin:
- HS Code:
- Supply Ability:
- CAS No.:
- Formula:
- EINECS:
- Constituent:



ungsten

Hexafluoride

More Images



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.
Specification
Origin
Production Capacity

WF6 10L/15kg Suzhou, China 200t/Year Transport Package Trademark HS Code Cylinder CMC 2812190091

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
02	ppm	<0.5	<0.01
N2	ppm	<1	0.03
со	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
AI	ppb	≤10	<0.020
As	ppb	≤10	<0.001
В	ppb	≤10	<0.005
Са	ppb	≤5	<0.200
Cd	ppb	≤2	<0.001
Cr	ppb	≤10	<0.020
Fe	ppb	≤10	<0.007
к	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

<0.001 <0.0010

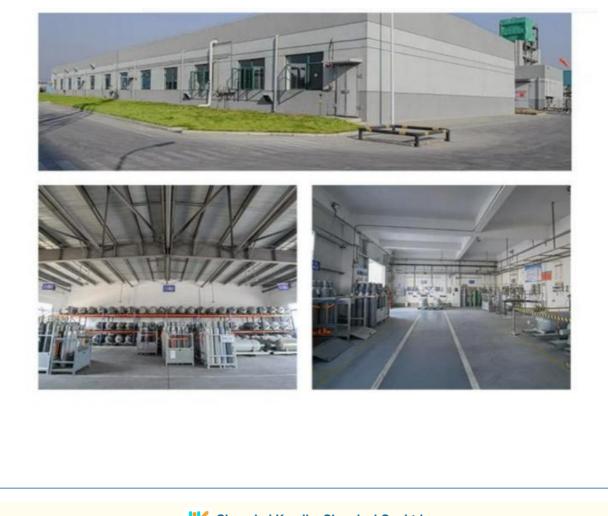
Detailed Photos





Company Profile





Shanghai Kemike Chemical Co.,Ltd

+86 18762990415

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