Semiconductor Cylinder Gas flame retardant materials production Bcl3 Boron Trichloride Gas

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Bcl3
- Minimum Order Quantity: 1kg
- Price: US $18
- Packaging Details: Cylinder
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 300,000tons/year

Product Specification

- Product Name: Boron Trichloride
- Cylinder Pressure: 15MPa/20MPa
- Cylinder Standard: GB/ISO/DOT
- Valve: Cga660
- Appearance: Colorless Fuming Liquid Or Gas With A Pungent
- Transport Package: Cylinder
- Specification: 40L, 47L, 50L
- Trademark: CMC
- Origin: China
- HS Code: 28121910
- Supply Ability: 300, 000tons/Year
- CAS No.: 10294-34-5
- Formula: Bcl3
- EINECS: 233-658-4

More Images

Our Product Introduction

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Product Description

Semiconductor Bcl3 Specialty Gas Cylinder 50L Industrial Grade

Boron trichloride, commonly abbreviated as BCl3, is a chemical compound composed of one boron atom and three chlorine atoms. It is a colorless gas at room temperature and is known for its highly reactive nature.

Here are some key properties and uses of BCl3:

Physical Properties: Boron trichloride is a nonpolar molecule with a trigonal planar molecular geometry. It has a boiling point of around 12.5 degrees Celsius (54.5 degrees Fahrenheit) and a melting point of -107.2 degrees Celsius (-161 degrees Fahrenheit). It is soluble in organic solvents such as benzene and carbon tetrachloride.

Chemical Reactivity: BCl3 is a highly reactive compound, readily reacting with various substances. It is a Lewis acid, meaning it can accept an electron pair from a Lewis base. It reacts violently with water, releasing hydrogen chloride gas and forming boric acid. It also reacts with alcohols, amines, and other organic compounds.

Industrial Uses: BCl3 finds applications in several industrial processes, including:

Chemical Synthesis: It is used as a catalyst or reagent in the production of various organic compounds, such as pharmaceuticals, polymers, and dyes.

Plasma Etching: BCl3 is utilized in the semiconductor industry for plasma etching processes. It selectively removes layers of material from the surface of semiconductors to create precise patterns and structures.

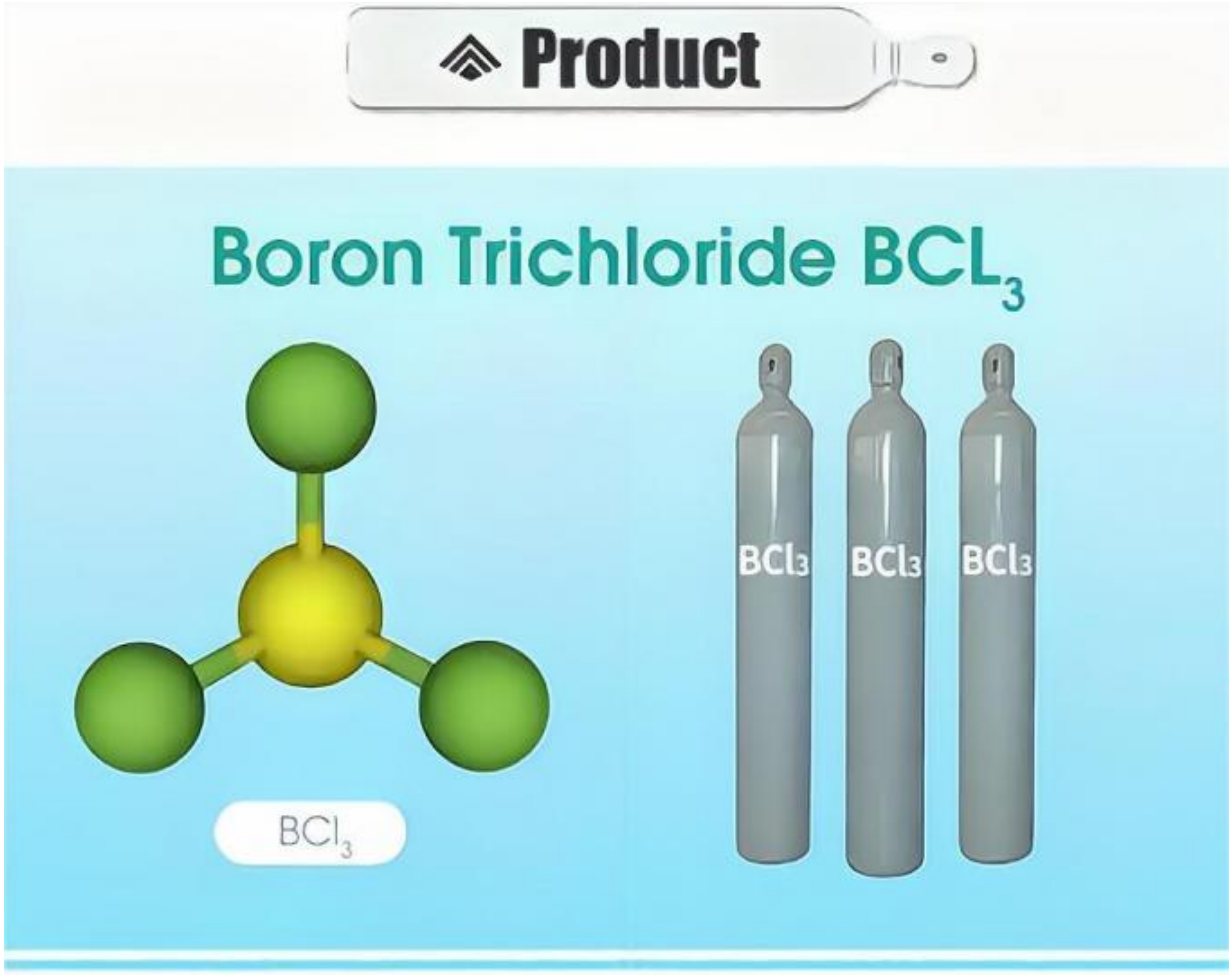
Flame Retardants: It is employed in the production of flame retardant materials, particularly for plastics and textiles.

Safety Considerations: Boron trichloride is a toxic and corrosive substance. It can cause severe burns upon contact with the skin, eyes, or respiratory system. Inhalation of BCl3 gas can lead to respiratory irritation and lung damage. Proper precautions, such as working in a well-ventilated area and using appropriate personal protective equipment, should be taken when handling this compound.

Basic Info.

Model NO.	Bcl3 Gas	DOT Class	2.3 & 8
Un No	1741	Cylinder Standard	GB/ISO/DOT
Cylinder Pressure	15MPa/20MPa	Valve	Cga660
Melting Point	-107.3 ºC	Appearance	Colorless Fuming Liquid or Gas with a Pungent
Boiling Point	12.5 ºC	Density	1.35 Kg/M³
Molecular Weight	117.19	Transport Package	40L, 47L, 50L
Specification	99.9%, 99.999%	Trademark	CMC
Origin	China	HS Code	28121910
Production Capacity	300, 000tons/Year		

Product Description



Specification:

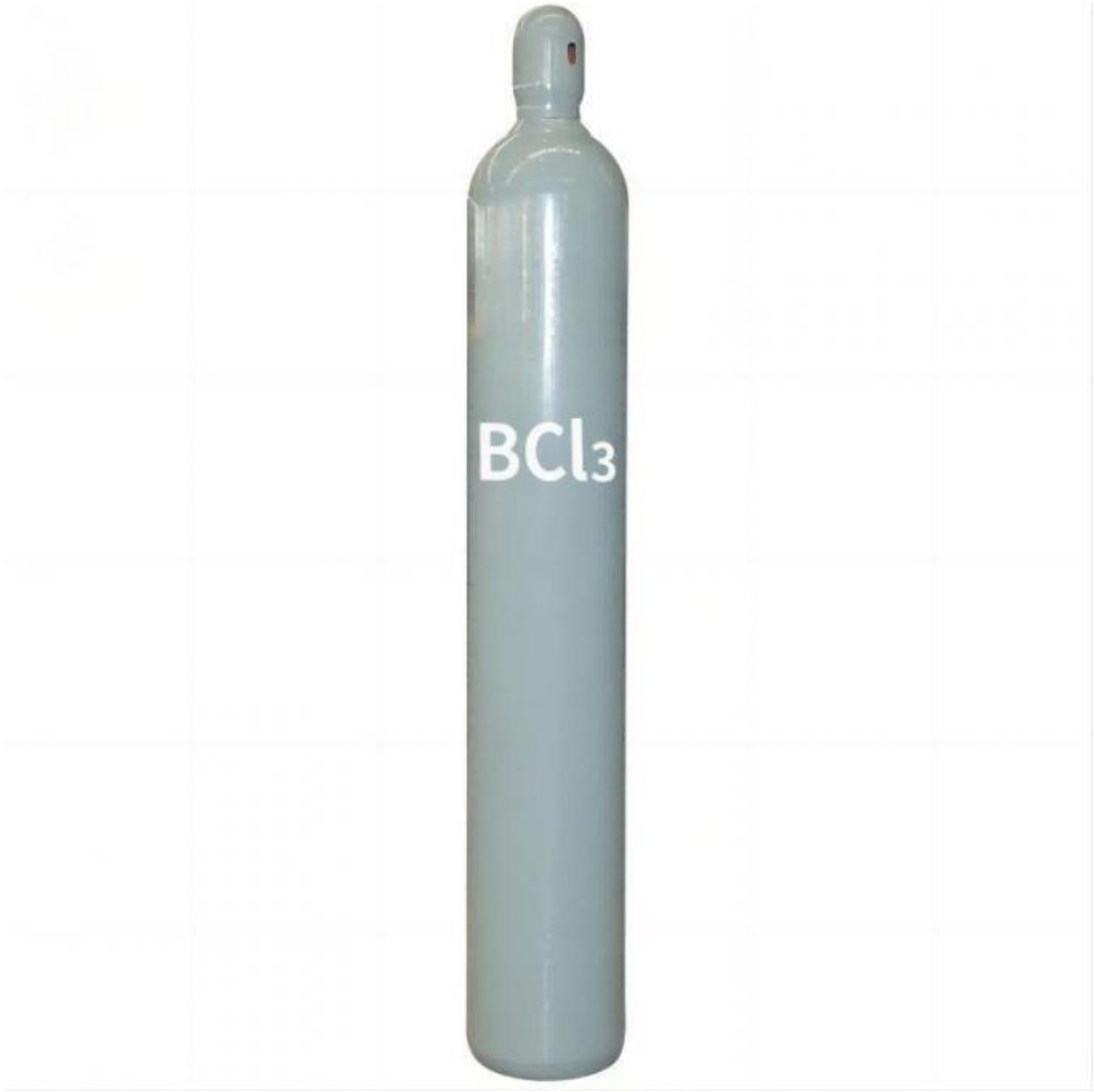
Dot Class: 2.3
State: Liquid
Purity: 99.9%
UN NO:UN1741
CAS NO: 10294-34-5
Grade Standard: Industrial Grade

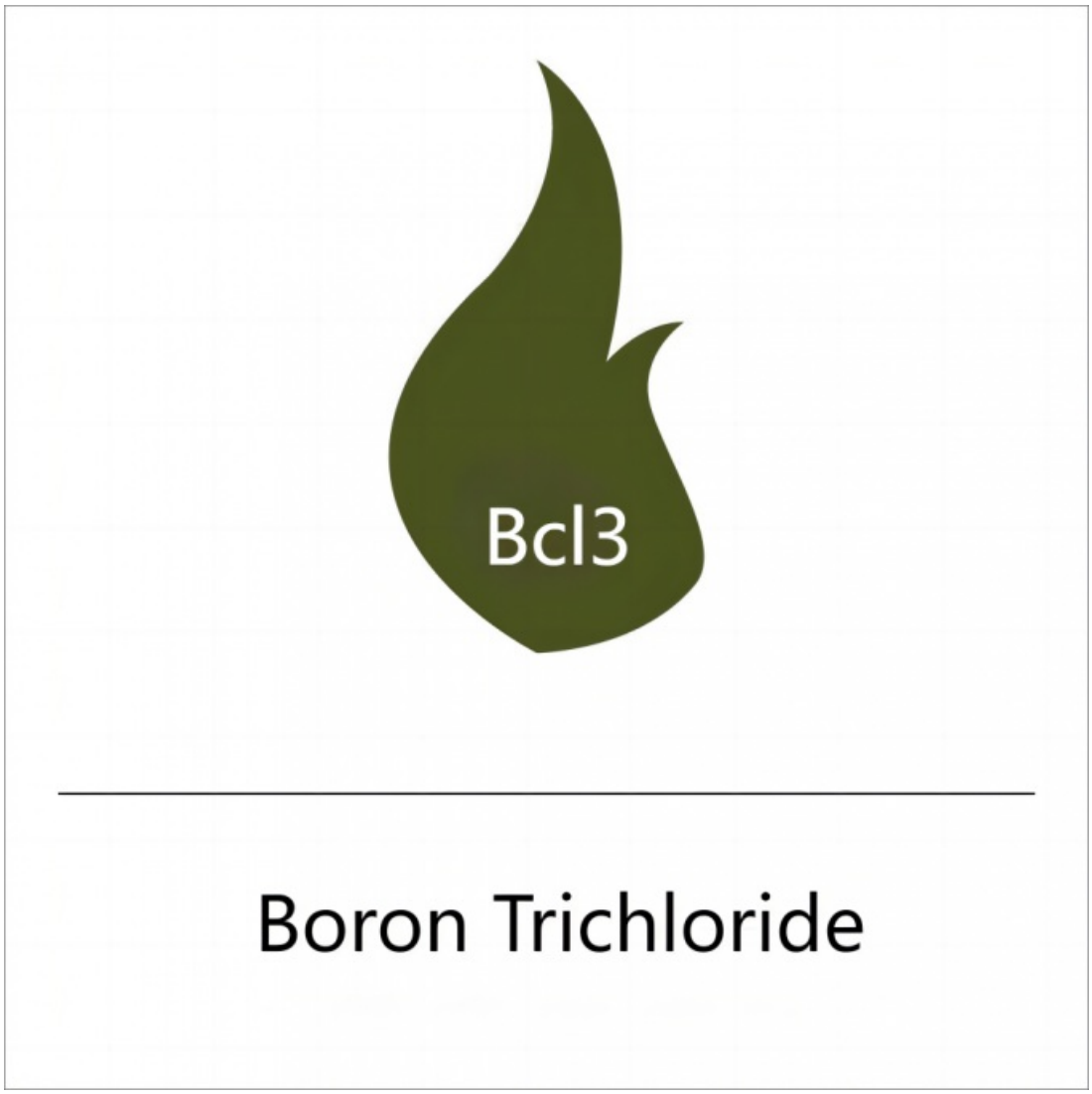
Specification	99.9%
Chlorine	≤ 10 ppm
Silicon Tetrachloride	≤ 300 ppm

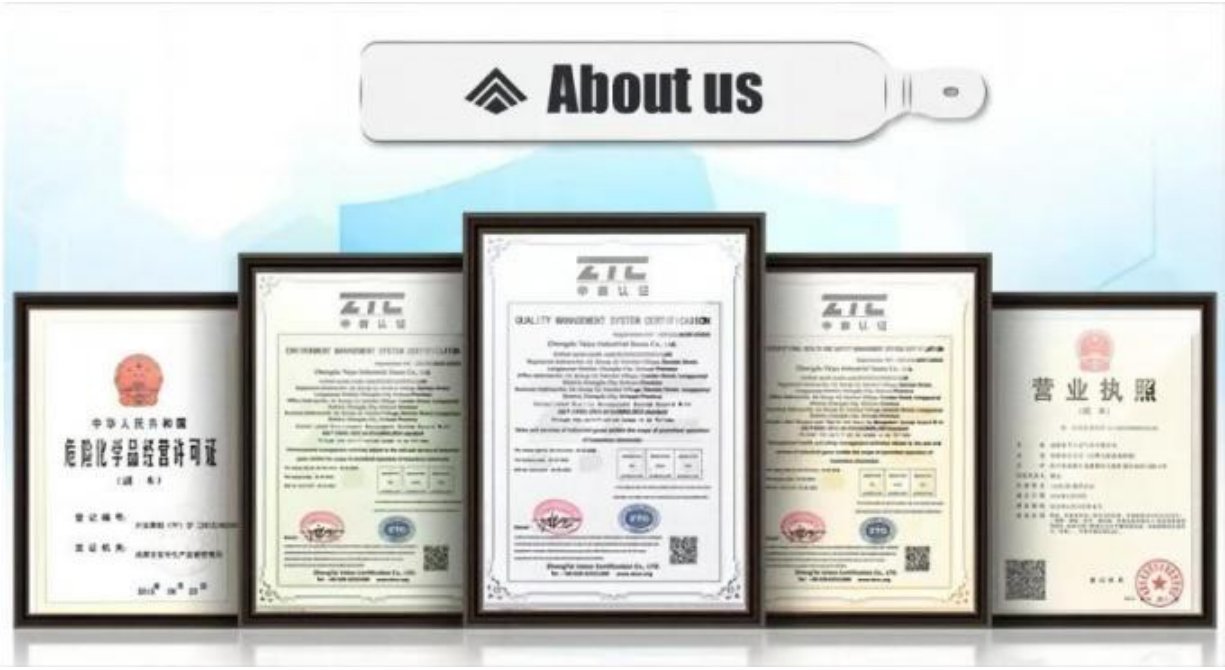
Packaging & Shipping

Cylinder Specifications		Contents
Cylinder Capacity	Valve	Weight
47L	CGA 660	50 kgs

Detailed Photos


BCl3





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

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