



Cylinder Gas China High Purity Gas Hcl Anhydrous Hydrogen Chloride

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Hcl
- Minimum Order Quantity: 1kg
- Price: US \$ 9.5/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 20000 Tons/Year

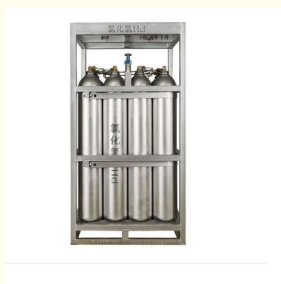


Product Specification

- Product Name: Anhydrous Hydrogen Chloride
- Cylinder Standard: DOT/ISO/GB
- Cylinder Pressure: 42bar
- Appearance: Colorless
- Valve: Cga330
- Boiling Point: -85.1 °C
- Molecular Weight: 36.46
- Melting Point: -114.2 °C
- Transport Package: 44L, 82.5L
- Specification: 44L, 82.5L
- Origin: China
- HS Code: 28061000
- Supply Ability: 2000 Tons/Year
- CAS No.: 7647-01-0
- Formula: HCl



More Images



Product Description

Product Description

Anhydrous hydrogen chloride (HCl) refers to hydrogen chloride gas that is free of water. It is the gaseous form of hydrochloric acid without any water molecules present. Here are some key points about anhydrous hydrogen chloride:

Composition: Anhydrous hydrogen chloride consists of hydrogen (H) and chlorine (Cl) atoms and is represented by the chemical formula HCl.

Properties: Anhydrous hydrogen chloride is a colorless gas with a pungent, sharp odor. It is highly soluble in water and readily forms hydrochloric acid when it comes into contact with moisture or water vapor. Anhydrous HCl has a boiling point of -85.05 degrees Celsius (-121.09 degrees Fahrenheit) and a melting point of -114.22 degrees Celsius (-173.56 degrees Fahrenheit).

Production: Anhydrous hydrogen chloride is typically produced by the reaction of hydrogen gas (H₂) with chlorine gas (Cl₂) in the absence of water. The reaction is often facilitated by a catalyst, such as activated carbon or a metal chloride.

Uses: Anhydrous hydrogen chloride has various applications in different industries:

Chemical Synthesis: It serves as a reactant, catalyst, or intermediate in the production of various chemicals, including pharmaceuticals, plastics, dyes, and fertilizers.

Semiconductor Industry: Anhydrous HCl is used in the semiconductor industry for etching and cleaning silicon wafers during the fabrication of electronic devices.

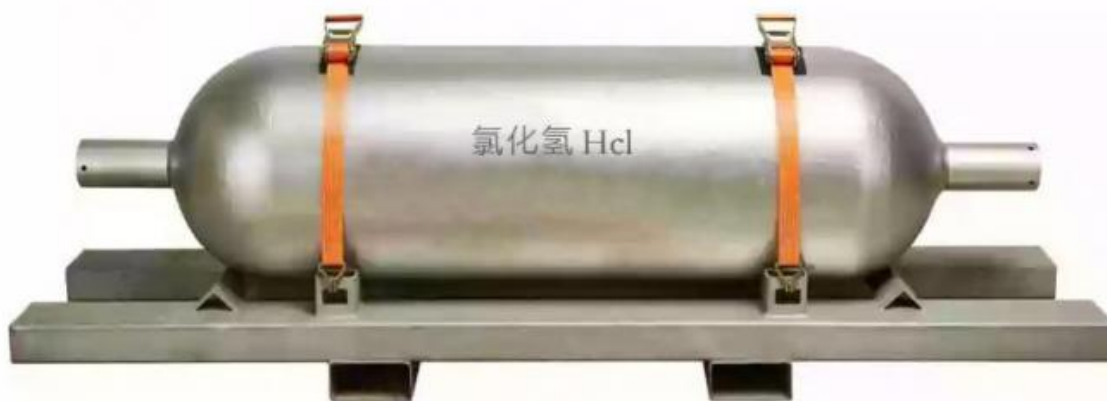
Oil Refining: It is utilized in the oil refining industry for processes such as the removal of impurities from petroleum products and the regeneration of catalysts.

Rubber Industry: Anhydrous hydrogen chloride is employed in the rubber industry for vulcanization, which enhances the strength and elasticity of rubber materials.

Laboratory Applications: It is used in laboratories for tasks such as pH adjustment, chemical synthesis, and extraction processes.

Safety Considerations: Anhydrous hydrogen chloride is highly corrosive and toxic. It can cause severe burns to the skin, eyes, and respiratory system upon contact. Inhalation of high concentrations of HCl gas can be harmful to human health. Proper safety precautions, including the use of appropriate protective equipment, ventilation systems, and safe handling procedures, should be followed when working with anhydrous hydrogen chloride.

Due to its hazardous nature, anhydrous hydrogen chloride should be handled with care, and its use and storage should comply with strict safety protocols and regulations.





Specification:

| Specification | Company Standard |
|---------------|------------------|
| HCL | ≥ 99.9% |
| CO2 | ≤ 400 ppm |
| CO | ≤ 60 ppm |
| N2 | ≤ 450 ppm |
| O2+AR | ≤ 30 ppm |
| THC (as CH4) | ≤ 5 ppm |
| Moisture | ≤ 5 ppm |

PRODUCT DETAILS



PRODUCT LINE



Company Profile

ShangHai CMC 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 | Ar+O2 | | | |
| GeH4 | C2H6 | B2H6 | H2Se | GeCl4 | Xe+NO | | | |

Workshop Display:



Monitor



Laboratory



Equipment

Zone of rectification



Gas filling



Equipment



