

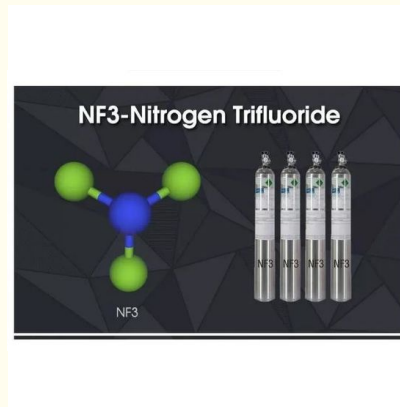


High Purity Industrial Grade Cylinder Gas NF3 Gas Nitrogen Trifluoride

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: NF3
- Minimum Order Quantity: 1kg
- Price: US \$500/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 20000 Tons/Year



Product Specification

- Product Name: Nitrogen Trifluoride
- Valve: Diss640
- Boiling Point: -129.0 °C
- Melting Point: -206.79 °C
- Cylinder Pressure: 15MPa/20MPa
- Cylinder Standard: DOT/ISO/GB
- Transport Package: Sea Transportation
- Specification: 47L, 440L
- Trademark: CMC
- Origin: China
- HS Code: 28129011
- Supply Ability: 5000tons/Year
- CAS No.: 7783-54-2
- Formula: NF3
- EINECS: 232-007-1



More Images



Product Description

Product Description

Nitrogen trifluoride (NF3) is a chemical compound composed of one nitrogen atom and three fluorine atoms. It is a colorless, odorless gas that is used in various industrial applications. Here are some key points about nitrogen trifluoride gas:

Chemical Formula and Structure: The chemical formula of nitrogen trifluoride is NF3. It consists of one nitrogen (N) atom bonded to three fluorine (F) atoms.

Physical Properties: Nitrogen trifluoride is a gas at room temperature and atmospheric pressure. It has a boiling point of -129.1°C (-204.4°F) and a melting point of -206.6°C (-339.9°F). NF3 is denser than air and does not have a distinct smell or color.

Production: Nitrogen trifluoride is primarily produced by the reaction of ammonia (NH3) with fluorine gas (F2). The reaction takes place at high temperatures and is typically carried out in the presence of a catalyst.

Uses: NF3 has several industrial applications. It is commonly used as a cleaning agent for silicon wafers in the semiconductor industry. It effectively removes oxide and nitride layers from the surfaces of electronic components. Nitrogen trifluoride is also used as a plasma etchant in the manufacturing of flat-panel displays, such as LCDs and OLEDs. Additionally, it is utilized as a propellant in some specialized rockets and as a component in some lithium-ion batteries.

Environmental Impact: Nitrogen trifluoride has gained attention due to its potential as a greenhouse gas. It has a relatively long atmospheric lifetime, estimated to be around 550 years. NF3 has a high global warming potential (GWP) compared to carbon dioxide (CO2), although its concentration in the atmosphere is currently much lower. Measures are being taken to monitor and regulate its emissions to mitigate its impact on climate change.

Safety Precautions: NF3 is considered a hazardous substance and should be handled with caution. It is toxic if inhaled or ingested, and exposure to high concentrations can cause severe respiratory irritation and damage. Proper ventilation and personal protective equipment (PPE) should be used when working with nitrogen trifluoride.

When handling NF3 gas, appropriate safety measures should be followed. NF3 gas should be used in well-ventilated areas or under controlled conditions to minimize exposure. It's important to ensure that proper safety equipment and procedures are in place to prevent any potential risks associated with handling or working with NF3 gas.

Please note that safety guidelines and regulations may vary depending on the specific application and location, so it's always important to adhere to local safety protocols and consult relevant safety information and experts when working with NF3 gas.

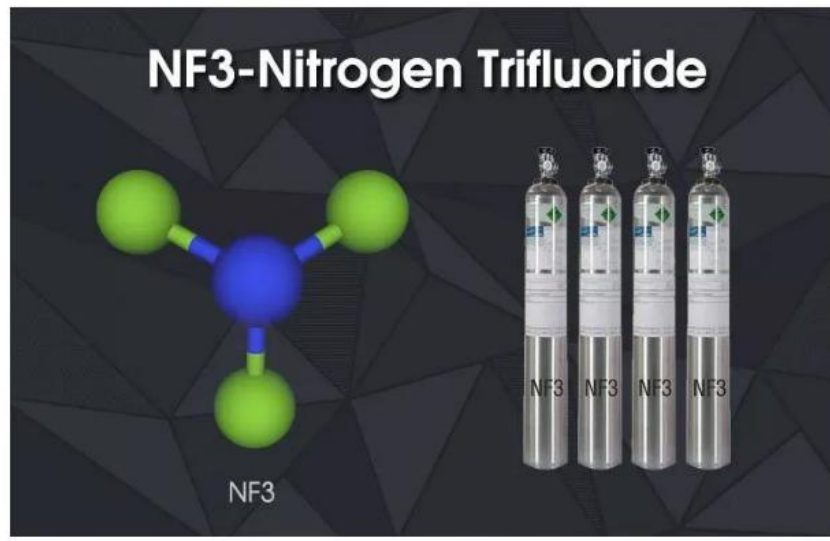
Basic Info

Transport Package:	47L, 440L	Melting Point	-206.79°C
Trademark:	CMC	Boiling Point	-129.0°C
Specification	99.99%, 99.996%	Production Capacity	5000 M3/Year
Cylinder Pressure	15MPa/20MPa	Valve	Diss640
Appearance	Colorless, Odorless	Density	2.96 Kg/M3

Specifications:

Specifications	Company Standard
NF3	≥ 99.996%
CF4	≤ 20 ppm
N2	≤ 5 ppm
O2+AR	≤ 3 ppm
CO	≤ 1 ppm
CO2	≤ 0.5 ppm
N2O	≤ 1 ppm
SF6	≤ 2 ppm
Moisture	≤ 1 ppm
Express as HF	≤ 1 ppm

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	HBr	COS	Ar+O ₂			
GeH ₄	C ₂ H ₆	B ₂ H ₆	H ₂ Se	GeCl ₄	Xe+NO			



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