



China 99.996% Electronic Grade Cylinder Gas NF3 Gas Nitrogen Trifluoride

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: NF3
- Minimum Order Quantity: 1kg
- Price: US \$60/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
- Melting Point: -206.79 °C
- Appearance: Colorless, Odorless
- Boiling Point: -129.0 °C
- Cylinder Pressure: 15MPa/20MPa
- Valve: Diss640
- Cylinder Standard: DOT/ISO/GB
- Transport Package: Sea Transportation
- Specification: 47L/440L
- Trademark: CMC
- Origin: Suzhou, China
- CAS No.: 7783-54-2
- Formula: NF3
- EINECS: 232-007-1
- Constituent: Industrial Pure Air



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 with a molecular formula of NF₃. Here are some key points about nitrogen trifluoride:

Production: NF₃ can be produced by the reaction of ammonia (NH₃) with fluorine gas (F₂). The reaction typically takes place in the presence of a catalyst, such as alumina or silica, at elevated temperatures.

Properties: NF₃ is a stable gas at room temperature and pressure. It has a boiling point of -129 °C (-204 °F) and a melting point of -206 °C (-339 °F). The gas is nonflammable, but it can support combustion. NF₃ is soluble in water and some organic solvents.

Uses: The primary use of nitrogen trifluoride is as a cleaning agent for the removal of thin film deposition in the semiconductor industry. It is commonly used to clean equipment such as chemical vapor deposition (CVD) chambers, plasma etching systems, and sputtering equipment. NF₃ is preferred for this application due to its high etch selectivity and low reactivity with silicon.

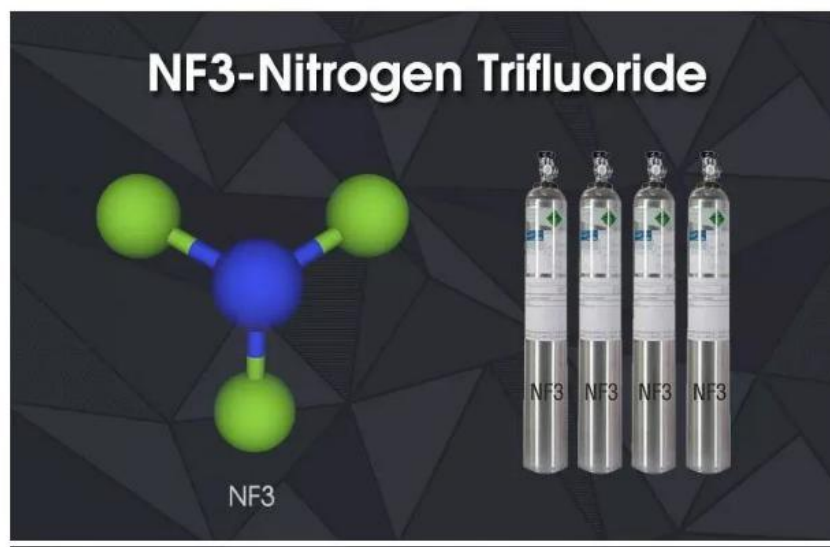
Environmental Impact: NF₃ is a potent greenhouse gas with a high global warming potential (GWP). It has a GWP of approximately 17,200 times that of carbon dioxide (CO₂) over a 100-year period. Although its atmospheric concentration is relatively low compared to other greenhouse gases, its long atmospheric lifetime contributes to its significant impact on global warming.

Safety Considerations: Nitrogen trifluoride can be hazardous when mishandled or released in large quantities. It is an oxidizer and can react violently with reducing agents or combustible materials. NF₃ gas is also an irritant to the respiratory system and can cause eye and skin irritation. Proper safety precautions, including adequate ventilation and personal protective equipment, should be observed when working with NF₃.

Basic Info.

Molecular Weight	147.05	Density	2.96Kg/m³
Melting Point	-206.79°C	Boiling Point	-129.0°C
Appearance	Colorless,Odorless	Un No.	2451
DOT Class	2.2&5.1	Valve	Diss640
Cylinder Standard	GB/ISO/DOT	Cylinder Pressure	15Mpa/20Mpa
Transport Package	47L/440L	Specification	99.99%,99.996%
Trademark	CMC	Origin	China
HS Code	28129011	Production Capacity	5000tons/Year

Specification:



Specifications	Company Standard
NF ₃	≥ 99.996%
CF ₄	≤ 20 ppm
N ₂	≤ 5 ppm
O ₂ +AR	≤ 3 ppm
CO	≤ 1 ppm
CO ₂	≤ 0.5 ppm
N ₂ O	≤ 1 ppm
SF ₆	≤ 2 ppm
Moisture	≤ 1 ppm
Express as HF	≤ 1 ppm

Detailed Photo



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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