



Electronic Grade NF3 Cylinder Gas Nitrogen Trifluoride 99.996% Prity

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 bonded to three fluorine atoms. It is a colorless, nonflammable gas with a pungent odor. NF₃ is primarily used in the electronics industry for cleaning equipment and removing contaminants during the manufacturing process.

Here are some key points about nitrogen trifluoride gas:

Applications: NF₃ is widely employed as a cleaning agent for chemical vapor deposition (CVD) chambers, which are used in the production of semiconductors, flat panel displays, and photovoltaic cells. It effectively removes residues and impurities from the surfaces of these devices.

Chemical Properties: Nitrogen trifluoride is a stable compound with a boiling point of -128.8°C (-199.8°F) and a melting point of -206.6°C (-339.9°F). It is soluble in water and various organic solvents. The molecule has a trigonal pyramidal shape, with the nitrogen atom at the center and the three fluorine atoms arranged around it.

Safety Considerations: NF₃ is relatively safe when handled properly, but it can be hazardous if mishandled or exposed to high concentrations. It is an asphyxiant, displacing oxygen in the air. Prolonged exposure to high levels of NF₃ can cause respiratory irritation and other health issues.

Adequate ventilation and proper safety measures should be in place when working with this gas.

Environmental Impact: Nitrogen trifluoride is a potent greenhouse gas with a high global warming potential (GWP). It has an atmospheric lifetime of around 550 years, contributing to its long-term impact on climate change. The increasing use of NF₃ in the electronics industry has raised concerns about its environmental footprint and the need for proper management and reduction strategies.

Handling and Storage: NF₃ is typically stored in high-pressure cylinders or tanks. Due to its potential reactivity, it should be kept away from incompatible materials, such as reducing agents or strong bases. Proper storage and handling procedures, as well as adherence to safety regulations, are essential to minimize risks.

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

Specifications:

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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