China 99.996% Electronic 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 $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 ºC
- Appearance: Colorless, Odorless
- Boiling Point: -129.0 ºC
- 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

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Product Description

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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.

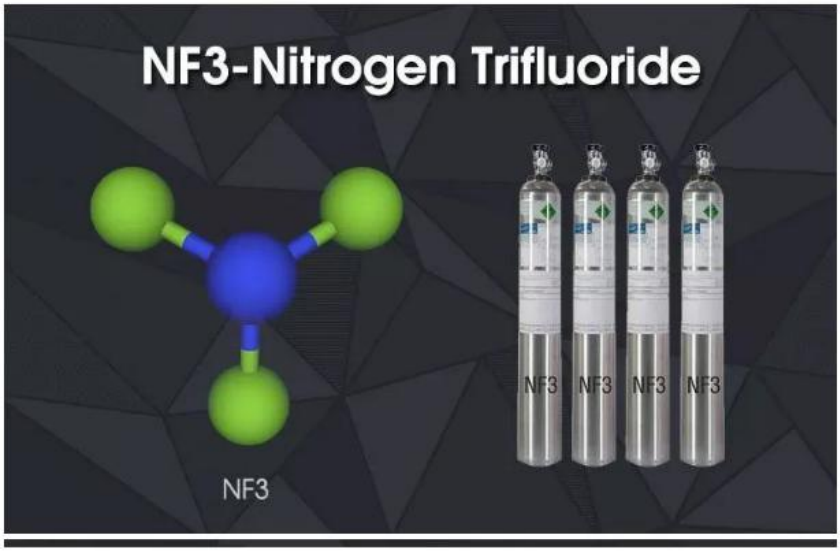
Environmental Impact: NF3 is a potent greenhouse gas with a high global warming potential (GWP). It has a GWP of approximately 17,200 times that of carbon dioxide (CO2) over a 100-year period. Although its atmospheric concentration is relatively low compared to other greenhouse gases, its long atmospheric 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	-206.79ºC	Boiling Point	-129.0ºC
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
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 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.

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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