



## Cylinder Gas Electronic Specialty Gas Liquid Nitrogen Trifluoride NF3 Gas

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 \$50/kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 5000kg/month

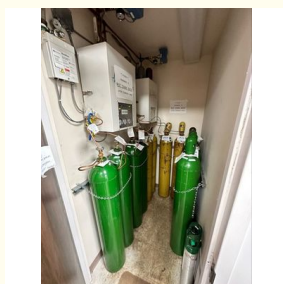


### Product Specification

- Product Name: Nitrogen Trifluoride Gas
- 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: China
- HS Code: 28129011
- Supply Ability: 5000tons/Year
- CAS No.: 7783-54-2
- Formula: NF3



### More Images

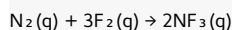


## Product Description

### Electronic Specialty Gas Cylinder Liquid Nitrogen Trifluoride NF3 Gas

Nitrogen trifluoride gas (NF<sub>3</sub>) is a chemical compound composed of nitrogen and fluorine. It is a colorless, odorless gas with a molecular formula of NF<sub>3</sub>. Here are some key points about nitrogen trifluoride gas:

Formation: Nitrogen trifluoride is typically produced by the reaction of nitrogen gas (N<sub>2</sub>) with fluorine gas (F<sub>2</sub>). The reaction can be represented as follows:



Physical properties: Nitrogen trifluoride is a nonflammable gas that is stable at normal temperatures and pressures. It has a boiling point of -129.1 °C (-204.4 °F) and a melting point of -206.6 °C (-339.9 °F). It is non-reactive with most metals, nonmetals, and common materials at room temperature.

Chemical properties: Nitrogen trifluoride is a powerful oxidizing agent and is highly reactive. It readily reacts with water vapor in the air to form nitrogen dioxide (NO<sub>2</sub>) and hydrofluoric acid (HF). It can also react with various other compounds, such as alkali metals and metal hydrides.

Uses: Nitrogen trifluoride has several industrial applications. It is primarily used in the electronics industry as a plasma etching gas for cleaning and etching silicon wafers during the production of semiconductors. It is also used as a cleaning agent for removing residues from the interior surfaces of equipment used in the manufacturing of electronic components. Additionally, NF<sub>3</sub> is used in the production of specialty chemicals, as a refrigerant, and in some lithium-ion batteries.

Environmental impact: Nitrogen trifluoride is a potent greenhouse gas with a high global warming potential (GWP). Its GWP is significantly higher than that of carbon dioxide (CO<sub>2</sub>) over a 100-year time frame. NF<sub>3</sub> is relatively stable in the atmosphere and has a long atmospheric lifetime, contributing to its potential impact on climate change. Efforts are being made to monitor and reduce the emissions of nitrogen trifluoride to mitigate its environmental effects.

It's important to note that if you are working with or handling nitrogen trifluoride gas, it should be done so with caution. Proper safety protocols, including the use of appropriate protective equipment and adherence to handling guidelines, should be followed.

#### 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 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: H<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, propane, acetylene, helium, laser mixed gas, SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, SiHCl<sub>3</sub>, SiCl<sub>4</sub>, NH<sub>3</sub>, CF<sub>4</sub>, NF<sub>3</sub>, SF<sub>6</sub>, HCL, N<sub>2</sub>O, doping mixed gas (TMB, PH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>) and other electronic gases.

SiCl <sub>4</sub>	NH <sub>3</sub>	NH <sub>3</sub>	CH <sub>3</sub> F	SiH <sub>4</sub>	Kr	H <sub>2</sub> S	WF <sub>6</sub>	F <sub>6</sub> +Cl <sub>2</sub>
4MS	C <sub>3</sub> F <sub>8</sub>	C <sub>3</sub> F <sub>8</sub>	TEOS	CH <sub>4</sub>	PH <sub>3</sub>	SF <sub>6</sub>	C <sub>2</sub>	HCl+Ne
CF <sub>4</sub>	C <sub>4</sub> F <sub>8</sub>	SiH <sub>2</sub>						TMB+H <sub>2</sub>
SiF <sub>4</sub>	C <sub>3</sub> H <sub>8</sub>	Cl <sub>2</sub>						He +As
BBr <sub>3</sub>	C <sub>3</sub> H <sub>6</sub>	DCE						Ge+Se
POCl <sub>3</sub>	N <sub>2</sub>	SO <sub>2</sub>						D+B
BCl <sub>3</sub>	D <sub>2</sub>	CO <sub>2</sub>						CO+NO
SiHCl <sub>3</sub>	CH <sub>2</sub> F <sub>2</sub>	HF						Ar+O <sub>2</sub>
TMAI	DMZn	DEZn						Xe+NO
AsH <sub>3</sub>	C <sub>2</sub> H <sub>4</sub>	C <sub>2</sub> H <sub>2</sub>	HBr	COS	Ar+O <sub>2</sub>			
GeH <sub>4</sub>	C <sub>2</sub> H <sub>6</sub>	B <sub>2</sub> H <sub>6</sub>	H <sub>2</sub> Se	GeCl <sub>4</sub>	Xe+NO			



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