



## Cylinder Gas Best Price Factory NF3 Nitrogen Trifluoride 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: 5000 Tons/Year



### Product Specification

- Product Name: Nitrogen Trifluoride
- Cylinder Standard: DOT/ISO/GB
- Cylinder Pressure: 15MPa/20MPa
- Boiling Point: -129.0 °C
- Melting Point: -206.79 °C
- Transport Package: 47L, 440L
- 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
- 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. Here are some key points about nitrogen trifluoride:

**Properties:** Nitrogen trifluoride is a colorless, odorless gas at room temperature and pressure. It has a molecular formula of NF3 and a molecular weight of 71.0 g/mol. NF3 is a stable compound and does not readily react with common materials such as metals or water.

**Production:** Nitrogen trifluoride is primarily produced through the reaction of ammonia (NH3) with fluorine gas (F2). The reaction takes place in the presence of a catalyst and at elevated temperatures. Other methods of production involve the reaction of nitrogen gas (N2) with fluorine or the direct fluorination of nitrogen oxide compounds.

**Applications:** Nitrogen trifluoride has several industrial applications:

**Semiconductor Industry:** NF3 is widely used in the semiconductor manufacturing industry as a cleaning agent for removing silicon oxide and other contaminants from process equipment. It is particularly effective at removing residual silicon-based films in plasma etching processes.

**LCD and Thin-Film Solar Panel Production:** Nitrogen trifluoride is used in the production of liquid crystal display (LCD) panels and thin-film solar panels. It is employed as a cleaning gas to remove impurities and ensure the quality of the surfaces and films.

**Chemical Industry:** NF3 serves as a fluorination agent in various chemical reactions, such as the synthesis of organic fluorine compounds.

**Environmental Impact:** Nitrogen trifluoride is considered a potent greenhouse gas. It has a high global warming potential (GWP) and a long atmospheric lifetime. NF3 emissions have been increasing due to its expanding use in industries, and it contributes to the overall greenhouse gas effect and climate change. Efforts are being made to reduce NF3 emissions and improve its handling and disposal.

**Safety Considerations:** Nitrogen trifluoride is a toxic and corrosive gas. It should be handled with care, and proper safety measures should be followed, including the use of appropriate protective equipment and ventilation systems. NF3 can cause severe burns to the eyes, skin, and respiratory system upon direct contact or inhalation.

#### 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

## About us



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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