Nitrogen Trifluoride Hot Sale High Purity Industrial Grade Cylinder Gas NF3

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: NF3
- Minimum Order Quantity: 1kg
- Price: US $500/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: 47L, 440L
- Specification: 47L, 440L
- Trademark: CMC
- Origin: China
- HS Code: 28129011
- Supply Ability: 5000tons/Year
- CAS No.: 7783-54-2
- Formula: NF3

Product Description

Product Description

NF3 gas refers to nitrogen trifluoride in its gaseous form. Nitrogen trifluoride (NF3) is a colorless, odorless gas at room temperature and is commonly used in various industrial applications. NF3 gas has specific properties and uses, as outlined below:

Properties: NF3 gas is non-flammable and non-toxic. It has a slightly sweet odor at high concentrations, but it is generally odorless. Nitrogen trifluoride has a boiling point of -129 degrees Celsius (-200 degrees Fahrenheit) and exists as a gas at room temperature and pressure.

Uses: NF3 gas finds application in several industries:

Electronics Manufacturing: It is widely used as a cleaning agent in the electronics industry. NF3 gas is effective in removing residues from silicon wafers, chambers, and other electronic components during the manufacturing process.

Plasma Etching: NF3 gas is utilized as a plasma etchant in the semiconductor industry. It selectively removes materials from the surface of silicon wafers and other substrates during the fabrication of integrated circuits and microchips.

Solar Panels: Nitrogen trifluoride is involved in the production of thin-film photovoltaic cells used in solar panels.

Fluorinating Agent: In certain chemical reactions, NF3 gas serves as a fluorinating agent. It can introduce fluorine atoms into organic molecules, enabling the synthesis of specific compounds.

Environmental Impact: It is worth noting that nitrogen trifluoride is a potent greenhouse gas with a high global warming potential. Its long atmospheric lifetime contributes to its potential impact on climate change. As the use of NF3 increases, efforts are being made to monitor and reduce emissions of this gas to mitigate its environmental impact.

When working with NF3 gas, it is crucial to follow appropriate safety measures, including working in well-ventilated areas and using proper protective equipment. Additionally, precautions should be taken to prevent exposure to high concentrations, as NF3 can displace oxygen and lead to asphyxiation in confined spaces.

Considering the potential environmental impact and safety considerations, responsible handling and usage of nitrogen trifluoride gas are essential.

Basic Info

Transport Package:	47L, 440L	Melting Point	-206.79ºC
Trademark:	CMC	Boiling Point	-129.0ºC
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: 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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