

High Purity Industrial Grade Cylinder Gas NF3 Gas Nitrogen Trifluoride

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

Valve: Diss640
Boiling Point: -129.0 °C
Melting Point: -206.79 °C
Cylinder Pressure: 15MPa/20MPa
Cylinder Standard: DOT/ISO/GB
Transport Package: Sea Transportation

47L, 440L Specification: Trademark: CMC • Origin: China HS Code: 28129011 . Supply Ability: 5000tons/Year CAS No.: 7783-54-2 Formula: NF3 • EINECS: 232-007-1



More Images



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 that is used in various industrial applications. Here are some key points about nitrogen trifluoride gas:

Chemical Formula and Structure: The chemical formula of nitrogen trifluoride is NF3. It consists of one nitrogen (N) atom bonded to three fluorine (F) atoms.

Physical Properties: Nitrogen trifluoride is a gas at room temperature and atmospheric pressure. It has a boiling point of -129.1°C (-204.4°F) and a melting point of -206.6°C (-339.9°F). NF3 is denser than air and does not have a distinct smell or color.

Production: Nitrogen trifluoride is primarily produced by the reaction of ammonia (NH3) with fluorine gas (F2). The reaction takes place at high temperatures and is typically carried out in the presence of a catalyst.

Uses: NF3 has several industrial applications. It is commonly used as a cleaning agent for silicon wafers in the semiconductor industry. It effectively removes oxide and nitride layers from the surfaces of electronic components. Nitrogen trifluoride is also used as a plasma etchant in the manufacturing of flat-panel displays, such as LCDs and OLEDs. Additionally, it is utilized as a propellant in some specialized rockets and as a component in some lithium-ion batteries.

Environmental Impact: Nitrogen trifluoride has gained attention due to its potential as a greenhouse gas. It has a relatively long atmospheric lifetime, estimated to be around 550 years. NF3 has a high global warming potential (GWP) compared to carbon dioxide (CO2), although its concentration in the atmosphere is currently much lower. Measures are being taken to monitor and regulate its emissions to mitigate its impact on climate change.

Safety Precautions: NF3 is considered a hazardous substance and should be handled with caution. It is toxic if inhaled or ingested, and exposure to high concentrations can cause severe respiratory irritation and damage. Proper ventilation and personal protective equipment (PPE) should be used when working with nitrogen trifluoride.

When handling NF3 gas, appropriate safety measures should be followed. NF3 gas should be used in well-ventilated areas or under controlled conditions to minimize exposure. It's important to ensure that proper safety equipment and procedures are in place to prevent any potential risks associated with handling or working with NF3 gas.

Please note that safety guidelines and regulations may vary depending on the specific application and location, so it's always important to adhere to local safety protocols and consult relevant safety information and experts when working with NF3 gas.

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

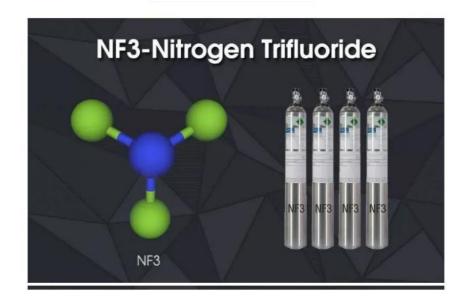
Cylinder Pressure 15MPa/20MPa Valve Diss640

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 Photos



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.

CH3F F6+CI2 WF6 SiCI4 NH3 NH3 SiH4 Kr H₂S

C2 C3F8 C3F8 **TEOS** CH4 PH₃ SF6 HCI+Ne 4MS

SiH2 CF4 C4F8

SiF4 **C3H8** CI2

DCE BBr3 **C3H6**

POCI3 SO2 N2

BCI3 D2 CO₂

SiHCI3 CH2F2 HF

TMAI DMZn DEZn AsH3

GeH4

C2H4

C2H6

B2H6

C2H2

H2Se

HBr

GeCl4

COS

Xe+NO

TMB+H2

He +As

Ge+Se

D+B

CO+NO

Ar+O2





