China High Purity Cylinder Gas wholesale Filled Nh3 Gas Ammonia

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: Nh3
- Minimum Order Quantity: 1kg
- Price: US $ 1/kg
- Packaging Details: Cylinder
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 20000 Tons/Year

Product Specification

- Product Name: Ammonia Gas
- Boiling Point: -33.5 ºC
- Density: 0.73 Kg/M3
- Melting Point: -77.7 ºC
- Cylinder Pressure: 3MPa/15MPa/20MPa
- Transport Package: 100L, 800L
- Specification: 100L, 800L
- Trademark: CMC
- Origin: China
- HS Code: 28141000
- Supply Ability: 20000 Tons/Year
- CAS No.: 7664-41-7
- Formula: Nh3
- EINECS: 231-635-3
- Constituent: Industrial Pure Air

More Images

Our Product Introduction

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Product Description

Filled Ammonia Nh3 Specialty Gas Cylinder 100L 800L

Ammonia gas (NH3) is a colorless gas with a pungent odor. It consists of one nitrogen atom bonded to three hydrogen atoms. Here are some key points about ammonia gas:

Chemical Composition: Ammonia is composed of one nitrogen atom bonded to three hydrogen atoms (NH3).

Properties: Ammonia possesses several important properties:

Odor: Ammonia has a strong, pungent odor that is easily detectable even at low concentrations. It is often described as having a sharp, suffocating smell.

Solubility: Ammonia is highly soluble in water, forming an alkaline solution known as ammonium hydroxide.

Basicity: Ammonia is a base and can react with acids to form salts. It can accept a proton (H+) to form the ammonium ion (NH4+).

Volatility: Ammonia has a relatively low boiling point (-33.34 degrees Celsius or -28.01 degrees Fahrenheit) and can readily convert from a liquid to a gas at room temperature.

Occurrence and Production: Ammonia occurs naturally in the environment and is also produced through various industrial processes:

Natural Occurrence: Ammonia is found in small quantities in the atmosphere, soil, water bodies, and living organisms. It is a byproduct of nitrogen metabolism in animals and is also produced by certain bacteria.

Industrial Production: The majority of ammonia is produced industrially through the Haber-Bosch process. This process combines nitrogen gas (N2) from the air with hydrogen gas (H2) derived from natural gas or other sources, using catalysts under high pressure and temperature.

Uses: Ammonia gas has numerous applications in various industries:

Fertilizer Production: The primary use of ammonia is as a key ingredient in the production of nitrogen-based fertilizers. Ammonia provides a crucial source of nitrogen for plant growth.

Chemical Manufacturing: Ammonia is a building block for the production of numerous chemicals, such as ammonium nitrate, urea, nitric acid, and various organic nitrogen compounds.

Refrigeration: Ammonia is used in industrial refrigeration systems due to its high heat of vaporization and low environmental impact compared to synthetic refrigerants.

Cleaning and Household Products: Ammonia-based solutions, such as ammonium hydroxide, are used as cleaning agents in various household and industrial applications.

Water Treatment: Ammonia is used in water treatment processes to remove impurities and adjust pH levels.

Textile Industry: Ammonia is employed in textile processing, such as dyeing and printing of fabrics.

Safety Considerations: Ammonia gas is toxic and can cause harm to humans and the environment:

Inhalation Hazards: Ammonia gas is irritating to the respiratory system and can cause eye, nose, and throat irritation. Higher concentrations can lead to severe lung damage and even death.

Flammability: Ammonia is not flammable, but it can support combustion and contribute to the intensity of fires.

Hazardous Reactions: Ammonia can react with certain chemicals, including acids and oxidizers, to produce hazardous or explosive materials. Proper handling and storage are critical to prevent accidents.

It is essential to handle and use ammonia gas with appropriate precautions, follow safety guidelines, and ensure proper ventilation to minimize exposure risks and prevent accidents.

Basic Info.

Transport Package:	800L, 100L	Melting Point	-77.7 ºC
Trademark:	CMC	Boiling Point	-33.5 ºC
Specification	99.80%	Production Capacity	20000 Tons/Year
Cylinder Pressure	3MPa/15MPa/20MPa	Valve	Qf-10

Product Name	Ammonia
Chemical Formula	NH3
Hazard Class	2.3
Molecular Weight	17.031
UN	1005
Boiling Point(ºC)	-33.43
Boiling Point(ºF)	-241.17
Density(kg/m³)	0.728
Density(lb/ft³)	0.044

rocess:

Industrial ammonia is purified by a filter into the electronic grade ultra-high purity ammonia. The annual output of ultra-high purity ammonia gas in Jinhong is more than 10,000 tons.

Specification:

S-cylinder: 44L/47L	Valve: CGA660	Content: 21Kg
Y-cylinder: 440L	Valve: DISS720	Content: 230Kg
T-cylinder: 930L	Valve: DISS720	Content:480Kg
ISO tank : 22.5Nm^3	Valve:1""VCR"	Content:11.2T

Application:

Ammonia(NH3)is used in

1. metal treating operations as nitriding, carbo-nitriding, bright annealing, furnace brazing, sintering, sodium hydride descaling, atomic hydrogen welding, and other applications where protective atmospheres are required
2. hydrogenation of fats and oils as a convenient source of hydrogen
3.manufacturing of alkalis, ammonium salts, dyes, pharmaceuticals, cuprammonium rayon, and nylon
4. rubber industry for stabilization of raw latex to prevent coagulation during transportation and torage
5. as a catalyst in the phenol-formaldehyde condensation and also in the urea-formaldehyde condensation to make synthetic resin
6.produce proteins and can be used to improve the protein content of low quality hay
7.semiconductor industry
8.production of blue and white LEDs (Light Emitting Diods)
9.In the field of novel optoelectronic materials, it is an important base material for GAN preparation by MOCVD technology. High purity ammonia or the preparation of nitrogen trifluoride, silicon nitride, the basic material, is the production of super high nitrogen raw gas. In addition, liquid ammonia is widely used in the semiconductor industry, the metallurgical industry, as well as other industries and scientific research that need to protect the atmosphere.

Detailed Photos


NH3
NH3

Packaging & Shipping

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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