Industrial Grade wholesale high purity Cylinder Gas 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/Tank
- 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

Product Description

Product Description

NH3 refers to ammonia, a chemical compound composed of one nitrogen atom and three hydrogen atoms. Here are some key points about NH3:

Chemical Formula: NH3

Molecular Weight: 17.03 g/mol

Structure: NH3 has a trigonal pyramidal molecular geometry, with the nitrogen atom at the center and the three hydrogen atoms forming a pyramid around it.

Physical Properties: Ammonia is a colorless gas at standard temperature and pressure. It has a pungent odor that is easily recognizable. It can be compressed into a liquid under moderate pressure or cooled to form a solid.

Production: Ammonia is commonly produced through the Haber-Bosch process, which involves the reaction of nitrogen gas (N2) and hydrogen gas (H2) in the presence of a catalyst at high temperatures and pressures.

Uses: Ammonia has numerous applications in various industries:

Fertilizer: Ammonia is a vital component in the production of nitrogen-based fertilizers, providing essential nitrogen to plants for growth.

Chemical Industry: It serves as a precursor for the production of various chemicals, including urea, nitric acid, ammonium nitrate, and ammonium sulfate.

Refrigeration: Ammonia is used as a refrigerant in industrial applications due to its high heat of vaporization and low environmental impact.

Cleaning and Bleaching: Ammonia is a common ingredient in household cleaning products and is used for its alkaline properties in removing stains and grease.

Pharmaceuticals: It is employed in the manufacture of certain medications and pharmaceutical intermediates.

Ammonia and Health: Ammonia is toxic and can be harmful when inhaled or when it comes into contact with the skin, eyes, or mucous membranes. It is important to handle ammonia with caution and in well-ventilated areas.

Environmental Impact: Ammonia can contribute to air and water pollution. It is a precursor to nitrogen oxides (NOx) and can contribute to eutrophication when released into bodies of water.

Ammonia Safety: When handling or storing ammonia, proper safety measures should be followed. This includes using appropriate personal protective equipment, ensuring proper ventilation, and adhering to regulations and guidelines for its storage and transportation.

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 Description

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 Photo


NH3


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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