Wholesale Nitrous Oxide Gas/ N2o Gas/Laughing Gas

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: N2O
- Minimum Order Quantity: 1kg
- Price: US $6kg
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 20000 Tons/Year

Product Specification

- Product Name: Nitrous Oxide
- Purity: 99.9%~99.999%
- Transport: By Sea
- Model No.: Laughing Gas
- Transport Package: Cylinder
- Specification: T75
- Trademark: CMC
- Origin: China
- CAS No.: 10102-43-9
- Formula: N2o
- Constituent: Industrial Pure Air
- Grade Standard: Medical Grade
- Chemical Property: Non-Flammable Gas
- Colour: Colourless
- Customization: Available | Customized Request

More Images

Product Description

Nitrous oxide (N2O), commonly known as laughing gas or nitrous, is a chemical compound composed of two nitrogen atoms bonded to one oxygen atom. Here are some key points about nitrous oxide:

Properties: Nitrous oxide is a colorless and odorless gas at room temperature and pressure. It is non-flammable and has a slightly sweet taste. Nitrous oxide is denser than air and is soluble in both water and organic solvents.

Production: Nitrous oxide can be produced through various methods. One common method involves the thermal decomposition of ammonium nitrate (NH4NO3). It can also be produced as a byproduct in the production of nitric acid or during the combustion of fossil fuels.

Medical and Dental Use: Nitrous oxide has a long history of use in medicine and dentistry as an anesthetic and analgesic agent. It is commonly used in combination with oxygen for conscious sedation and pain management during dental procedures and minor surgeries.

Recreational Use: Nitrous oxide has also been used recreationally for its euphoric and dissociative effects. It is often inhaled from small canisters, commonly known as "whippits" or "nangs," using a device such as a whipped cream dispenser or a balloon.

Chemical and Industrial Applications: Nitrous oxide finds applications in various chemical and industrial processes:

Propellant and Aerosol: Nitrous oxide is used as a propellant in aerosol products, such as whipped cream dispensers, cooking sprays, and certain automotive products.

Food Industry: Nitrous oxide is used as a foaming agent in the food industry to create bubbles and texture in products like whipped creams, mousses, and foams.

Automotive Industry: Nitrous oxide is utilized as a performance-enhancing additive in racing and high-performance vehicles. It is injected into the engine to increase power output by delivering additional oxygen to support combustion.

Welding: Nitrous oxide can be used as an oxidizing agent in some welding applications, particularly in situations where an oxygen source is not readily available.

Environmental Impact: Nitrous oxide is a potent greenhouse gas and contributes to climate change. It has a significantly higher global warming potential compared to carbon dioxide. Nitrous oxide emissions mainly come from agricultural and industrial activities, as well as the combustion of fossil fuels.

It is important to note that the recreational use of nitrous oxide can be dangerous and potentially harmful if not used responsibly. Misuse or overexposure to nitrous oxide can result in oxygen deprivation, frostbite, loss of consciousness, and other health risks.

Basic Info.

Model NO.	0.999	Un	2201
Filling Capacity	20-21ton	Purity	0.999
Transport Package	ISO Tank	Specification	0.999
Trademark	CMC	Origin	China
HS Code	2811290090	Production Capacity	50000ton Per Year

Applications

Not known in the free state, but forming a well known series of salts, namely the nitrites, nitrous oxide has been used for medical purposes since the late 18th century. Nitrous oxide is used as a mild anesthetic, often in combination with other agents, in dentistry, traditional surgery and cryosurgery.

For medical use, it is a Surgical anaesthetic, widely used at hospital or clinic . For food grade use, It is an excellent food preservative, non-toxic, harmless and pollution-free, the milk dissolved with laughing gas can keep fresh for a long time without refrigeration, so it is widely used at coffee shop.

N2O is unreactive with most substances when at room temperature, including alkali metals, halogens, and even ozone. Due to this it is widely used as a propellant in aerosol cans in place of the CFCs which can damage the ozone layer.

One of our current N2O machines and N2O gases are exported below (capacity with 80kg/h). The purity of N2O gas is 99-99.9% for medical and industry use ,and 99.9994% for electronic use.

99.9% N2O gas filled in 40L Cylinder , Gas vol.20kg/cylinder
Valve: QF-2
Volume: ~40L
Diameter: 219 Mm
Working Pressure: 150 Bar
Testing Pressure: 250 Bar
Color: Skyblue

Specification		Certified concentration		Analytical method
N2O	≥99	≥99	%	HG2685-1995
CO	≤10	≤10	ppm	
CO2	≤250	≤250	ppm	
H2O	≤100	≤100	ppm	
NO-NO2	≤0.5	≤0.5	ppm	
N2	≤25	≤25	ppm	
NH3	≤5	≤5	ppm	

Detailed Photos

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.

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