



Semiconductor Industry Use Electronic Grade 99.999% Purity Nitrous Oxide N₂O Gas

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: N₂O
- Minimum Order Quantity: 1kg
- Price: US \$8/kg
- 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
- Appearance: Colorless
- Transport: By Sea
- Purity: 99.9%~99.999%
- Model No.: Laughing Gas
- Transport Package: Bot
- Specification: 1L 4L 10L 40L 50L
- Trademark: CMC
- Origin: Suzhou, China
- HS Code: 2811290090
- Supply Ability: 20,000 ton/Year
- CAS No.: 10024-97-2
- Formula: N₂O
- EINECS: 233-032-0
- Constituent: Industrial Pure Air



More Images



Product Description

Product Description

Nitrous oxide (N₂O), also known as laughing gas, is a chemical compound composed of nitrogen and oxygen atoms. Here are some key points about nitrous oxide:

Structure: Nitrous oxide has a linear molecular structure, with one nitrogen atom (N) bonded to two oxygen atoms (O). Its chemical formula is N₂O.

Properties: Nitrous oxide is a colorless and odorless gas. It is relatively stable and non-flammable. Nitrous oxide is denser than air and can support combustion. It is soluble in water to some extent.

Production: Nitrous oxide can be produced through various methods. One common method is the thermal decomposition of ammonium nitrate (NH₄NO₃), which releases nitrous oxide gas as a byproduct. It can also be produced as a byproduct in certain industrial processes, such as the production of nitric acid.

Medical and Dental Use: Nitrous oxide is widely used in medicine and dentistry as an analgesic and anesthetic. It is commonly administered in combination with oxygen for pain relief and sedation during dental procedures or minor surgeries. Nitrous oxide's use in medical settings is closely monitored and regulated.

Recreational Use: Nitrous oxide has a history of recreational use as a dissociative anesthetic and a recreational drug. It is sometimes inhaled from small canisters, typically referred to as "whippets" or "laughing gas," to induce a brief euphoric and hallucinogenic effect.

Industrial Applications: Nitrous oxide has various industrial applications, including:

Rocket Propellant: Nitrous oxide can be used as an oxidizer in rocket engines due to its ability to support combustion. It is commonly used in hybrid rocket motors.

Food Industry: Nitrous oxide is used as a propellant in aerosol whipped cream dispensers to create a foamy texture. It is also used in food manufacturing processes to prevent spoilage by inhibiting the growth of bacteria.

Automotive Industry: Nitrous oxide can be used as a performance-enhancing additive in car engines. By introducing nitrous oxide into the intake air, it provides additional oxygen, allowing for more complete combustion and increased power output.

Environmental Impact: Nitrous oxide is considered a greenhouse gas and contributes to global warming. It has a relatively long atmospheric lifetime and a high global warming potential compared to carbon dioxide. Nitrous oxide emissions primarily arise from agricultural and industrial activities, as well as the use of nitrogen-based fertilizers.

It is important to note that the recreational use of nitrous oxide can be dangerous and potentially harmful if misused or abused. Proper precautions and responsible use should always be exercised.

Basic Info.

DOT Class	2.2&5.1	Un No	1070
Cylinder Standard	GB/ISO/DOT	Cylinder Pressure	12.5MPa/15MPa/20MPa
Valve	Cga540	Melting Point	-91 °C
Appearance	Colorless	Boiling Point	-88 °C
Density	1.8 Kg/M³	Molecular Weight	44.013
Transport Package	40L/47L/50L	Specification	99.90%
Trademark	CMC	Origin	China
HS Code	2811290090	Production Capacity	20, 000ton/Year

Specification:

CAS No.: 10024-97-2

EINECS No.: 233-032-0

UN No.: UN1070

Purity: 99.9%

Dot Class: 2.1&5.1

Appearance: Colorless

Grade Standard: Medical Grade, Industrial Grade

N ₂ O - Nitrous Oxide	99.9% min	Units
CO	≤20	ppm
O ₂ +Ar	≤200	ppm
N ₂	≤600	ppm
H ₂ O	≤30	pp

Product Nitrous Oxide N₂O

Package Size 40Ltr Cylinder 50Ltr Cylinder T75 ISO Tank

Filling Net Weight/Cyl 24Kgs 30Kgs 19 Tons

QTY Loaded in 20'Container 250 Cyls 250 Cyls 1 Unit

Total Net Weight 6.0 Tons 7.5 Tons 19 Tons

Cylinder Tare Weight 50Kgs 55Kgs 8170kgs

Valve CGA540

Our carbon monoxide have been exported to many countries like India, Pakistan, Iran, Malaysia, Indonesia, Australia, Netherlands, and Mexico.

Since the establishment of our company, it has received universal praise by virtue of good reputation, high quality and perfect after service.

Detailed Photos



Company

Profile

About us



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.

SiCl ₄	NH ₃	NH ₃	CH ₃ F	SiH ₄	Kr	H ₂ S	WF ₆	F ₆ +Cl ₂
4MS	C ₃ F ₈	C ₃ F ₈	TEOS	CH ₄	PH ₃	SF ₆	C ₂	HCl+Ne
CF ₄	C ₄ F ₈	SiH ₂						TMB+H ₂
SiF ₄	C ₃ H ₈	Cl ₂						He +As
BBr ₃	C ₃ H ₆	DCE						Ge+Se
POCl ₃	N ₂	SO ₂						D+B
BCl ₃	D ₂	CO ₂						CO+NO
SiHCl ₃	CH ₂ F ₂	HF						Ar+O ₂
TMAI	DMZn	DEZn						Xe+NO
			AsH ₃	C ₂ H ₄	C ₂ H ₂	HBr	COS	
			GeH ₄	C ₂ H ₆	B ₂ H ₆	H ₂ Se	GeCl ₄	



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