



## Gas N2 Nitrogen For Packaging And Preservation In Food Beverage Industry Usage

Our Product Introduction

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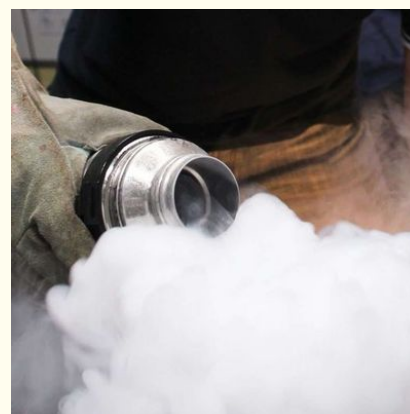
### Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: N2
- Minimum Order Quantity: 1 ton
- Price: US \$40/ton
- Packaging Details: Cylinder/Tank
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 20000 Tons/Year



### Product Specification

- Product Name: Nitrogen Gas
- Melting Point: -209.86 °C
- Appearance: Colorless, Odorless
- Boiling Point: -196 °C
- Cylinder Pressure: 12.5MPa/15MPa/20MPa
- Valve: Qf-2/Cga580
- Cylinder Standard: GB/ISO/DOT
- Transport Package: Sea Transportation
- Specification: 10L 40L 50L
- Trademark: CMC
- Origin: Suzou, China
- HS Code: 2804300000
- Supply Ability: 50000piece/Month
- CAS No.: 7727-37-9
- Formula: N2



### More Images



Product Description

Product Description

Nitrogen gas (N2) is a colorless, odorless, and tasteless diatomic gas composed of two nitrogen atoms bonded together. It is the most abundant gas in Earth's atmosphere, making up about 78% of the air we breathe. Nitrogen is an essential element for life, and it plays a vital role in various biological and industrial processes.

Here are some key points about nitrogen gas:

Natural occurrence: Nitrogen gas is found naturally in the Earth's atmosphere. It is obtained by fractional distillation of liquid air, which separates nitrogen from other components like oxygen, argon, and carbon dioxide.

Chemical properties: Nitrogen is relatively unreactive under normal conditions. It is a nonmetal and has a high bond energy, making it difficult to break the N2 molecule apart. Nitrogen gas is stable and inert, which means it does not readily react with other substances.

Uses in industry: Nitrogen gas has numerous industrial applications. It is commonly used as an inert gas to displace oxygen and prevent oxidation or spoilage of sensitive materials. Nitrogen is used in the food and beverage industry to preserve freshness and prevent spoilage of packaged goods. It is also utilized in the chemical industry for purging and blanketing processes.

Uses in biology: Nitrogen is an essential nutrient for plants and animals. In the form of nitrates, it is a vital component of fertilizers used in agriculture to promote plant growth. Nitrogen-fixing bacteria convert atmospheric nitrogen into ammonia, which can be used by plants. Animals obtain nitrogen by consuming plants or other animals.

Liquid nitrogen: Nitrogen gas can be cooled and liquefied at extremely low temperatures (-196 degrees Celsius or -321 degrees Fahrenheit). Liquid nitrogen is widely used in cryogenic applications, such as preserving biological samples, freezing food, and in certain medical procedures.

Hazards: While nitrogen gas is generally not toxic, it can displace oxygen in confined spaces, leading to an oxygen-deficient environment. Oxygen deficiency can be hazardous, causing dizziness, rapid breathing, loss of consciousness, and even death. Proper ventilation and safety measures should be taken when working with nitrogen in enclosed spaces.

Basic Info.

|                |                                    |                     |                  |
|----------------|------------------------------------|---------------------|------------------|
| Model NO.      | N2                                 | Storage Medium      | Flammable/Toxic  |
| Pressure Level | High Pressure (10.0MPa≤p<100.0MPa) | Condition           | New              |
| Pressures      | 20MPa                              | OTC                 | OTC              |
| Size           | 40L 50L                            | Transport Package   | Sea              |
| Specification  | 40L 20MPA                          | Trademark           | CMC              |
| Origin         | suzhou                             | Production Capacity | 50000piece/Month |

Detailed

Photos



| Outside diameter(mm) | Water capacity(L) | Design wall Thickness(mm) |
|----------------------|-------------------|---------------------------|
| 219mm                | 36-40L            | 5.7                       |
|                      | 20L-34L           |                           |
|                      | 27L               |                           |
| 229mm(GB/ISO)        | 30L               | 5.7                       |
|                      | 40L               |                           |
|                      | 50L               |                           |
| 232mm(GB/ISO)        | 40L               | 6                         |
|                      | 47L               |                           |
|                      | 50L               |                           |
| 232mm(GB/ISO)        | 40L               | 5.4                       |
|                      | 47L               |                           |
|                      | 50L               |                           |
| 232mm(GB/ISO)        |                   | 5.8                       |
|                      | 40-50L            | 5.4                       |
|                      |                   | 5.2                       |
| 232mm(ISO)           | 40-50L            | 5.8                       |
|                      | 60L               |                           |
| 279mm(ISO)           | 68L               | 6.0                       |
|                      | 80L               |                           |
|                      | 50-54L            |                           |
| 267mm(GB5099.1)      | 60L               | 5.7                       |
|                      | 68L               |                           |
|                      | 70L               |                           |
|                      | 80L               |                           |
|                      | 50-54L            |                           |
| 267mm(ISO)           | 60L               | 6.2                       |
|                      | 68L               |                           |

70L  
80L

Company

Profile

ShangHai CMC 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: H<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, propane, acetylene, helium, laser mixed gas, SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, SiHCl<sub>3</sub>, SiCl<sub>4</sub>, NH<sub>3</sub>, CF<sub>4</sub>, NF<sub>3</sub>, SF<sub>6</sub>, HCL, N<sub>2</sub>O, doping mixed gas (TMB, PH<sub>3</sub>, B<sub>2</sub>H<sub>6</sub>) and other electronic gases.

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

**Workshop Display:**



**Monitor**



**Laboratory**



**Equipment**

**Zone of rectification**



**Gas filling**



**Equipment**



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