



## Gas N2 Nitrogen For Packaging & Controlled Atmospheres Production Storage

Our Product Introduction

for more products please visit us on [gascylindertank.com](http://gascylindertank.com)

### 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

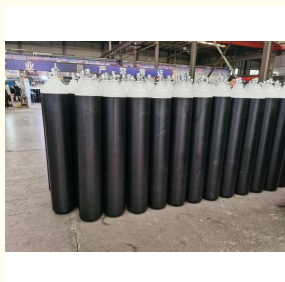


### Product Specification

- 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 gas that makes up about 78% of Earth's atmosphere. It is an essential element for life and plays a crucial role in various natural and industrial processes.

Here are some key points about nitrogen gas:

Composition and Properties: Nitrogen gas is composed of two nitrogen atoms chemically bonded together. It has a molecular weight of 28.0134 grams per mole and a density of 1.251 grams per liter at standard temperature and pressure (STP).

Abundance in the Atmosphere: Nitrogen gas is the most abundant gas in Earth's atmosphere, accounting for approximately 78% of its total volume. It exists in a diatomic form (N2), meaning two nitrogen atoms are strongly bonded together.

Role in Supporting Life: Nitrogen is an essential element for living organisms. However, most organisms cannot use nitrogen in its gaseous form directly. Nitrogen-fixing bacteria and certain plants can convert gaseous nitrogen into more usable forms like ammonia (NH3) or nitrate (NO3-) through a process called nitrogen fixation. These compounds can then be utilized by other organisms to build proteins and nucleic acids.

Industrial Applications: Nitrogen gas has numerous industrial applications due to its inert properties. It is commonly used as a blanketing gas to displace oxygen and prevent oxidation or combustion in various processes, such as in the food and beverage industry, electronics manufacturing, and chemical production. Nitrogen gas is also used in the production of ammonia, fertilizers, and as a coolant in cryogenic applications.

Liquid Nitrogen: When nitrogen gas is cooled below its boiling point of -195.8 degrees Celsius (-320.4 degrees Fahrenheit), it condenses into a liquid form known as liquid nitrogen. Liquid nitrogen is extremely cold and is commonly used in cryogenics for freezing and preserving biological samples, as well as in various scientific and medical applications.

Safety Precautions: While nitrogen gas itself is not toxic, it can displace oxygen in a confined space, leading to an oxygen-deficient environment. This can be dangerous if proper precautions are not taken. Oxygen monitoring and adequate ventilation should be ensured when working with nitrogen gas or any other inert gases.

It's worth noting that nitrogen gas is distinct from nitrous oxide (N2O), commonly known as "laughing gas," which is also a compound containing nitrogen but with different properties and uses.

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)	40-50L	5.8
		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	
	60L	

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**

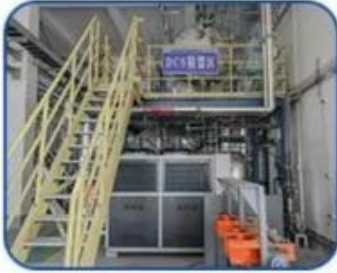


**Laboratory**



**Equipment**

**Zone of rectification**



**Gas filling**



**Equipment**



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