China High Purity OEM Medical Industrial Cylinder tank Oxygen Gas

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: CMC
- Certification: COA
- Model Number: O2
- Minimum Order Quantity: 1 m3
- Price: US $3/m3
- Packaging Details: Cylinder
- Delivery Time: 15 days
- Payment Terms: L/C, T/T
- Supply Ability: 1000Tons/year

Product Specification

- Product Name: Oxygen Gas
- Appearance: Colorless Gas
- Boiling Point: -183ºC
- Melting Point: -218.4 ºC
- Working Pressure: 150bar/200bar
- Testing Pressure: 250bar/300bar
- Transport Package: 40L/47L/50L/ISO Tank
- Specification: 40L/47L/50L/ISO Tank
- Trademark: CMC
- Origin: China
- HS Code: 2804400000
- Supply Ability: 100, 000m3/Year
- CAS No.: 7782-44-7
- Formula: O2
- EINECS: 231-956-9

More Images

Product Description

Product Description

Oxygen gas (O2) is a colorless, odorless, and tasteless gas that is essential for sustaining life. It is one of the most abundant elements in the Earth's atmosphere, comprising approximately 21% of the air we breathe. Here are some key points about oxygen gas:

Chemical Composition: Oxygen gas is composed of two oxygen atoms bonded together (O2).

Properties: Oxygen gas possesses several important properties:

Supports Combustion: Oxygen is a highly reactive gas and supports the process of combustion. It acts as an oxidizer, allowing substances to burn more readily in the presence of oxygen.

Essential for Respiration: Oxygen is vital for the process of respiration in living organisms. It is used by cells to produce energy through the process of cellular respiration.

Odorless and Colorless: Oxygen gas is odorless and lacks color, making it difficult to detect without specialized equipment.

Occurrence and Production: Oxygen gas exists in various forms and is produced through natural and industrial processes:

Atmospheric Oxygen: The Earth's atmosphere contains oxygen in the form of diatomic oxygen gas (O2), which is produced primarily through photosynthesis by plants and algae.

Industrial Production: Oxygen gas can be produced industrially through several methods, including the fractional distillation of liquefied air and the electrolysis of water. These processes separate oxygen from other gases and generate high-purity oxygen for various applications.

Uses and Applications: Oxygen gas has a wide range of applications in different fields:

Medical Applications: Oxygen is commonly used in medical settings to assist patients who have difficulty breathing or require supplemental oxygen. It is provided through medical oxygen cylinders or concentrators.

Combustion and Welding: Oxygen is used in various industrial processes, such as metal cutting, welding, and oxy-fuel combustion. When combined with a fuel gas (e.g., acetylene), it produces a high-temperature flame for cutting and welding operations.

Chemical Industry: Oxygen is employed in chemical processes, such as oxidation reactions and the production of chemicals like ethylene oxide, hydrogen peroxide, and methanol.

Water Treatment: Oxygen gas is used in water treatment systems to enhance the biological degradation of organic pollutants and to increase dissolved oxygen levels in bodies of water.

Aerospace and Scuba Diving: Oxygen is used in aviation and space exploration to provide breathable air for pilots, astronauts, and passengers. It is also used in scuba diving as a component of breathing gases.

Environmental Control: Oxygen gas is used in controlled environments, such as greenhouses and aquaculture, to promote plant growth and maintain optimal oxygen levels for aquatic organisms.

Safety Considerations: While oxygen is essential for life, it also poses certain safety risks:

Fire and Explosion Hazard: Oxygen supports combustion, and high concentrations of oxygen can increase the flammability of materials. It is important to handle oxygen with caution and avoid contact with flammable substances.

Oxygen Enrichment: Oxygen-enriched atmospheres, where the oxygen concentration is higher than normal, can increase the risk of fire and make materials more reactive. Care must be taken to prevent the accumulation of oxygen in confined spaces.

Toxicity: Oxygen itself is not toxic, but breathing in very high concentrations of oxygen for an extended period can be harmful. This is why medical oxygen administration should be done under professional supervision.

Pressure Hazards: Oxygen gas can be stored under high pressure. Proper handling of compressed oxygen cylinders and equipment is important to prevent accidents.

Understanding the safe handling, storage, and usage of oxygen gas is crucial to prevent accidents and ensure its effective and responsible use in various applications.

Basic Info

Transport Package:	40L/47L/50L/ISO Tank	Melting Point	-218.4 ºC
Trademark:	CMC	Boiling Point	-183ºC
Specification	99.999%	Production Capacity	100, 000m3/Year
Cylinder Pressure	12.5MPa/15MPa/20MPa	Valve	Qf-2/Cga580
Appearance	Colorless, Odorless	Density	1.429g/L

Specification:

CAS No.: 7782-44-7
EINECS No.: 231-956-9
UN No.: UN1072
Purity: 99.999%-99.9999%
Dot Class: 2.2 & 5.1
Appearance: Colorless
Grade Standard: Industrial Grade, Grade, Electronic Grade

Specification	99.999%
Hydrogen	≤0.5 ppm
Argon	≤2 ppm
Nitrogen	≤5 ppm
Carbon Dioxide	≤0.5 ppm
THC (as CH4)	≤0.5 ppm
Moisture	≤2 ppm

Packaging & Shipping

Cylinder Specifications		Contents	Pressure
Cylinder Capacity	Valve	Volume	bar psig
40L	QF-2	7 m3	150 2175
47L	QF-2	7 m3	150 2175
50L	QF-2	10 m3	200 2900

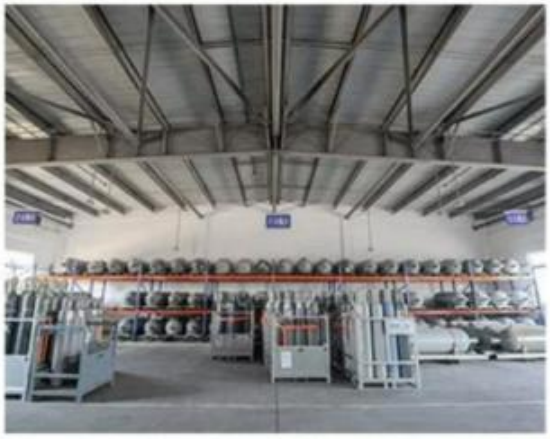
Detailed Photo

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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