Colorless Tasteless Industrial Cylinder Gas In Bulk O2 Gas Oxygen

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
- Cylinder Standard: GB/ISO/DOT
- Valve: Qf-2/Cga580
- Cylinder Pressure: 12.5MPa/15MPa/20MPa
- Boiling Point: -183ºC
- Appearance: Colorless Gas
- Melting Point: -218.4 ºC
- 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

More Images

Product Description

Product Description

Oxygen gas (O2) is the diatomic form of the element oxygen. It is a colorless, odorless, and tasteless gas that is essential for supporting life on Earth. Here are some key points about oxygen gas:

Chemical Composition: Oxygen gas is composed of two oxygen atoms bonded together (O2). It is the most common form of oxygen found in the atmosphere, comprising approximately 21% of the Earth's air.

Properties: Oxygen gas possesses several important properties:

Supports Combustion: Oxygen is a highly reactive gas that supports combustion. It is necessary for most types of burning and is often referred to as a "burning supporter" or an oxidizer.

Solubility: Oxygen gas is sparingly soluble in water. It can dissolve in water to some extent, allowing it to be transported in the bloodstream and utilized by living organisms.

Density: Oxygen gas is slightly denser than air, which means it tends to settle near the ground level.

Occurrence and Production: Oxygen gas is present in the Earth's atmosphere and is also produced through various processes:

Natural Occurrence: Oxygen is a naturally occurring element and is one of the most abundant elements on Earth. It is released into the atmosphere through photosynthesis by plants and other photosynthetic organisms.

Industrial Production: Oxygen gas can be produced industrially through various methods, such as cryogenic distillation, pressure swing adsorption, or electrolysis of water. These processes allow for the extraction and purification of oxygen gas for various applications.

Uses and Applications: Oxygen gas has numerous applications in different fields:

Respiration and Medical Use: Oxygen gas is crucial for respiration, as it is required by living organisms for cellular respiration and energy production. In medical settings, supplemental oxygen is provided to patients with respiratory conditions or in situations where there is a need for increased oxygen levels.

Combustion and Welding: Oxygen gas is used in various industrial processes, such as combustion and welding. It is often supplied as a pure or concentrated stream to support the burning of fuels or as an oxidizer in oxy-fuel welding and cutting.

Ozone Generation: Oxygen gas can be used to generate ozone (O3), a highly reactive form of oxygen that has various applications, including water treatment, sterilization, and air purification.

Chemical Production: Oxygen gas is utilized in the production of various chemicals, such as hydrogen peroxide, ethylene oxide, and methanol.

Aerospace and Scuba Diving: In aerospace applications, oxygen gas is used for life support systems, providing breathable air for astronauts and high-altitude pilots. In scuba diving, oxygen is used in different gas mixtures to support underwater breathing at various depths.

Environmental Remediation: Oxygen gas is sometimes used in environmental remediation processes to enhance the breakdown of pollutants and aid in the restoration of contaminated sites.

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

Fire and Explosion Hazards: Oxygen supports combustion, and an increased concentration of oxygen can significantly increase the risk of fires and explosions. It is crucial to handle and store oxygen gas in a controlled manner and avoid contact with flammable materials.

Oxidation Hazards: Oxygen can react with certain materials, including fuels and combustible substances, leading to increased reactivity and potential hazards. Precautions should be taken to prevent accidental reactions.

Oxygen Toxicity: High concentrations of oxygen can be toxic and harmful to the human body. Prolonged exposure to high partial pressures of oxygen can cause oxygen toxicity, which can damage the lungs, central nervous system, and other organs.

Handling and Storage: Oxygen gas cylinders and systems should be handled with care, following proper storage, transportation, and usage protocols. Special attention should be given to preventing the cylinders from being damaged or contaminated.

Proper handling, storage, and use of oxygen gas are essential to ensure safety and prevent accidents. It is important to follow established safety guidelines and regulations when working with oxygen gas in various applications.

Basic Info

Transport Package:	40L/47L/50L/ISO Tank	Melting Point	-218.4 ºC
Trademark:	CMC	Boiling Point	-183 ºC
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

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Packaging & Shipping

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

Shanghai Kemike Chemical Co.,Ltd

+86 18762990415 williamchen@cmc-chemical.com gascylindertank.com