China Factory Best Price Industrial High Purity Cylinder Gas O2 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 Gas
- Melting Point: -218.4 ºC
- Boiling Point: -183ºC
- Working Pressure: 150bar/200bar
- Appearance: Colorless
- 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
- Constituent: Industrial Pure Air

More Images

Product Description

Oxygen gas (O2) is the molecular form of oxygen, which is an essential element for life. It is a colorless, odorless, and tasteless gas that is crucial for supporting various biological and combustion processes. 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 and stable form of oxygen found in the Earth's atmosphere.

Occurrence: Oxygen gas is present in the Earth's atmosphere, constituting approximately 20.95% by volume. It is the second most abundant gas in the atmosphere, after nitrogen.

Properties: Oxygen gas possesses several important properties:

Reactivity: Oxygen gas is highly reactive and readily combines with other elements and compounds. It supports combustion, allowing materials to burn in the presence of oxygen.

Solubility: Oxygen gas is sparingly soluble in water. It can dissolve in water, and the dissolved oxygen is critical for aquatic organisms and ecosystems.

Density: Oxygen gas is slightly denser than air. It has a density of about 1.43 grams per liter at standard temperature and pressure.

Uses and Applications: Oxygen gas has various important applications in different fields:

Respiratory Support: Oxygen gas is commonly used for medical purposes to provide supplemental oxygen to patients with respiratory conditions or insufficient oxygen levels. It can be administered through oxygen masks, nasal cannulas, or specialized breathing apparatus.

Combustion and Oxidation: Oxygen gas supports combustion and is used in various industrial processes, such as metal cutting, welding, and oxy-fuel combustion in furnaces and boilers.

Chemical Manufacturing: Oxygen gas is used as a feedstock or reactant in the production of chemicals and fuels. It plays a crucial role in processes like oxidation, combustion, and gasification.

Ozone Generation: Oxygen gas is used in ozone generators to produce ozone (O3) for applications like water treatment, air purification, and sterilization.

Aerospace and Scuba Diving: Oxygen gas is used in aviation and aerospace industries to provide breathable air for pilots, astronauts, and passengers at high altitudes or in space. It is also utilized in scuba diving to ensure a continuous supply of oxygen underwater.

Aquaculture and Water Treatment: Oxygen gas is introduced into water bodies to enhance dissolved oxygen levels, promoting the survival of aquatic organisms and improving water quality.

Laboratory and Research: Oxygen gas is utilized in various laboratory applications, including gas chromatography, combustion analysis, and as a respiratory gas for animals in research settings.

Safety Considerations: While oxygen gas is essential for life, it should be handled with care due to certain safety considerations:

Oxidation Hazards: Oxygen is a powerful oxidizer and can support combustion. It can react vigorously with flammable materials, accelerants, and combustible substances, increasing the risk of fires and explosions.

Oxygen Enrichment: Oxygen gas can displace air and create an oxygen-enriched atmosphere. This can increase the flammability of materials, accelerate combustion, and pose an asphyxiation risk.

Proper Ventilation: Adequate ventilation is essential when working with oxygen gas to prevent the accumulation of oxygen-enriched atmospheres and to maintain a safe working environment.

Storage and Handling: Oxygen cylinders and containers should be stored and handled in accordance with safety guidelines to prevent damage, leaks, and contamination.

Medical Considerations: Oxygen therapy should be administered under the supervision of healthcare professionals to ensure proper dosage and avoid potential risks.

It is important to follow appropriate safety practices and guidelines when working with oxygen gas to ensure the safety of individuals and prevent accidents or hazards associated with its reactivity and potential for combustion.

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

Product Description

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.

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