

The Compressed Gas Association

European Industrial Gases Association

International Oxygen Manufacturers Association

and developing new gas mixtures for applications in the oil, gas and petrochemical industries. Originally founded as Kuwait Oxygen and Acetylene co. in 1953, Gulf Cryo was the first gas manufacturer in the region to provide industrial gases such as Oxygen and Nitrogen to the booming local petroleum industry.

## Ensuring you have a 100% guaranteed source of high quality gases

### Our geographic reach

Gulf Cryo is a leading manufacturer of industrial, medical, food-grade, and specialty gases in the Middle East. Covering all of the GCC, Jordan, Syria, Pakistan, Egypt and Iraq, our highly skilled engineers work with the oil, gas and petrochemical industries developing technology to advance processes and techniques through innovative gas applications.

### Our gas solutions

Application	Our products
<b>Upstream</b> Oil well pressurisation Enhanced oil recovery (EOR) Oil well stimulation	• Nitrogen • Hydrogen • Oxygen • Carbon dioxide
<b>Downstream</b> Blanketing of tanks Preventing the release of hydrocarbon emissions Preventing Oxygen ingress into vacuum units Purging Supply of Oxygen, Nitrogen and Hydrogen as process feed stock Calm chemical reactions Safely shutdown or start up refinery units Lowering Sulphur content in hydrocrackers and hydro-treaters Sulphur recovery applications Pipeline pigging Combustion efficiency at the furnace Break down of heavy hydrocarbons during the catalytic cracking process	• Acetylene • Argon • Nitrous oxide • Mixed gases • Specialty gases • Dry Ice • Helium



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Oil, gas & petrochemical industries

For over half a century, Gulf Cryo has been supplying gases and developing new gas mixtures for applications in the metals processing industry.

Gulf Cryo subsidiaries are members of:

- The Compressed Gas Association
- EIGA
- IOMA

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### Helping you improve quality, increase productivity and reduce costs

**Our geographic reach**

Gulf Cryo is a leading manufacturer of industrial, medical, food-grade, and specialty gases in the Middle East. Covering all of the GCC, Jordan, Syria, Pakistan, Egypt and Iraq, our highly skilled engineers work with the metals processing industry developing technology to advance processes and techniques through innovative gas applications.



**Our gas solutions**

Applications	Our products	Our services
MIG/MAG welding TIG welding Plasma welding Laser welding Flame cutting Oxy-fuel cutting Powder coating Plasma coating	<ul style="list-style-type: none"> <li>Liquid and compressed pure gases</li> <li>Gas mixtures for specific use</li> <li>Shielding gases</li> </ul>	<ul style="list-style-type: none"> <li>Production and supply of pure and mixed gases</li> <li>Analysis of customer requirements</li> <li>Pipeline installation</li> <li>Bulk installation</li> <li>Technical support</li> <li>Cylinder maintenance</li> <li>On-site equipment maintenance</li> <li>Air separation unit installation</li> <li>Equipment supply</li> <li>Design, engineering and installation</li> </ul>

**Our gases**

At Gulf Cryo, gases and gas mixtures are prepared under controlled conditions following strict international standards ensuring tolerances are clearly defined.

Fire extinction  
Valve sealing  
Dry ice blasting  
Explosimetry  
Leak testing

**The customer challenge**

The Middle East is abundantly endowed with oil and gas resources. However, as the world economy grows and the demand for energy increases the drive to improve efficiency, cost effectiveness and environmental stewardship has become a key driver in decision making.

**How we work with you**

Gulf Cryo's dedicated technical team understands that finding an industrial gas partner willing and able to invest in plant, equipment and human resources is a must for any oil and gas company. Gulf Cryo can provide a full portfolio of products and services including on-site supply of gases as process feedstock, bulk gases for safety and maintenance, EOR solutions for carbon capture and packaged gases for lab use and welding applications.

Our engineers can implement a total gas management service handling the operation and maintenance of gas plants, assuring a 100% guaranteed source of high quality gases in the pipeline with an additional back-up bulk gas service.

**Our gases**

At Gulf Cryo, gases and gas mixtures are prepared under controlled conditions following strict international standards ensuring tolerances are clearly defined.

Pure gases (Liquid and compressed)	Purity
Acetylene	98.5%
Argon	99.999%
Carbon Dioxide	99.9%
Hydrogen	99.999%
Nitrogen	99.999%
Nitrous Oxide	95%
Oxygen	99.9%
Argon/Helium mixture	
Argon/Hydrogen mixture	
Argon/Carbon Dioxide mixture	

**Our supply and packaging options**

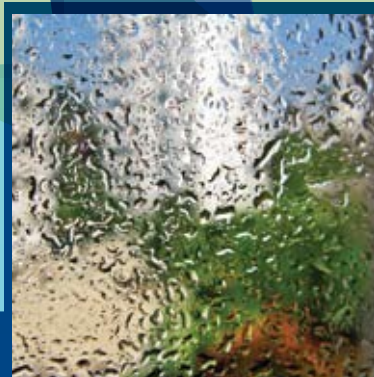
With 13 subsidiaries covering ten countries in the Middle East, Gulf Cryo covers a vast territory offering the supply of gases and the installation of equipment. We will provide you with the best available supply package to suit your business requirements.

Options	
Air separation unit installation	Full gas supply distribution network
ISO tanks and road tankers	Spot requirements for bulk products
Tube trailers	Smaller requirements
Cylinder racks	On-site packaging
Gas cylinders	On-site packaging
SMR	For Hydrogen supply
PSA and membranes	For Nitrogen supply
VPSA	For Oxygen supply

Talk to our applications engineers to identify the right solution for you.

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## Glass Industry



For over half a century, Gulf Cryo has been supplying gases and developing new applications for the glass industry.

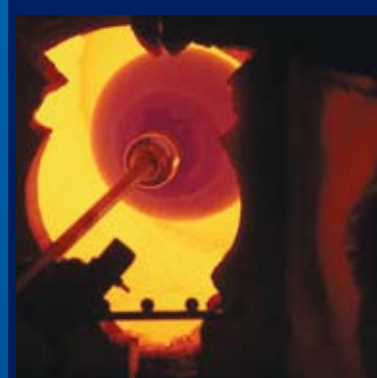
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# Helping you enhance quality, improve processes and reduce energy consumption

## Our geographic reach

Gulf Cryo is a leading manufacturer of industrial, medical, food-grade, and speciality gases in the Middle East. Covering all of the GCC, Jordan, Syria, Pakistan, Egypt and Iraq, our highly skilled engineers work with glass manufacturers developing technology to advance processes and techniques through innovative gas applications.



## The customer challenge

The complex production process of glass manufacturing makes it one of the most energy intensive industries in terms of the amount of energy used per unit of product. With rising energy costs and increasing environmental regulations, glass manufacturers are looking for innovative ways to drive cost down, improve productivity and ultimately enhance product quality. Industrial gases used in the glass making process have a significant impact on the strength, optical and thermal properties of the glass and hence it is important that glass manufacturers have a reliable supply of high quality gases.

## How we work with you

Gulf Cryo's dedicated technical team understands the challenges glass manufacturers face in finding the right gas solution as a variety of gases can be used in different glass making processes. Gulf Cryo offer expertise in supplying gases for glass melting, polishing and surface treatment as well as a range of supply schemes from on-site installations of plants to truck delivery.

Our engineers can implement a total gas management service handling the operation and maintenance of the gas plants, assuring a 100% guaranteed source of high quality gases in the pipeline with an additional back-up bulk gas service.

## Our gas solutions

Applications	Our products	Our services
<ul style="list-style-type: none"> <li>• Glass melting</li> <li>• Glass polishing</li> </ul>	<ul style="list-style-type: none"> <li>• Oxygen</li> </ul>	<ul style="list-style-type: none"> <li>• Production and supply of high purity and mixed gases</li> <li>• Analysis of customer requirements</li> <li>• Operation and maintenance of gas plants</li> <li>• Bulk and gas cylinder delivery</li> <li>• Design, engineering and installation</li> </ul>
<ul style="list-style-type: none"> <li>• Lubrication for glass bottle and tableware manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>• Acetylene</li> </ul>	
<ul style="list-style-type: none"> <li>• Creating an inert atmosphere</li> <li>• Maintaining positive pressure for float glass manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>• Nitrogen</li> </ul>	
<ul style="list-style-type: none"> <li>• Glass coating on float glass to produce Reflectasol (solar control glass)</li> </ul>	<ul style="list-style-type: none"> <li>• Silane</li> </ul>	
<ul style="list-style-type: none"> <li>• Displacing oxidant in the float glass process</li> </ul>	<ul style="list-style-type: none"> <li>• Hydrogen/Nitrogen mix</li> </ul>	
<ul style="list-style-type: none"> <li>• Heat treatment of fibre optic pre-forms</li> </ul>	<ul style="list-style-type: none"> <li>• Hydrogen</li> </ul>	
<ul style="list-style-type: none"> <li>• Drawing of fibre optic pre-forms</li> </ul>	<ul style="list-style-type: none"> <li>• High purity speciality gases</li> </ul>	
<ul style="list-style-type: none"> <li>• Gas filling in bulbs and tube lights for imparting various colour and lighting characteristics</li> </ul>	<ul style="list-style-type: none"> <li>• Helium</li> </ul>	
<ul style="list-style-type: none"> <li>• Insulation gas</li> </ul>	<ul style="list-style-type: none"> <li>• Argon</li> </ul>	
<ul style="list-style-type: none"> <li>• Surface treatment/coating to increase glass durability</li> </ul>	<ul style="list-style-type: none"> <li>• Sulphur Dioxide</li> </ul>	

## Our gases

At Gulf Cryo, gases and gas mixtures are prepared under controlled conditions following strict international standards ensuring tolerances are clearly defined.

Pure gases (Liquid and compressed)	Purity
Liquid Nitrogen	99.999%
Liquid Oxygen	99.5%

Compressed pure gases	Purity
Nitrogen	99.999%
Oxygen	99.5%
Hydrogen	99.999%
Acetylene	98.5%
Helium	99.999%

## Our supply and packaging options

With 13 subsidiaries covering ten countries in the Middle East, Gulf Cryo covers a vast territory offering the supply of gases and the installation of equipment.

Bulk gases	Capacity	Working pressure (barg)
Cryogenic storage tanks	2000 - 75,000 litres	3 - 30
Liquid gas cylinders (dewars)	180 - 1000 litres	2 - 37

Compressed gases	Capacity	Working pressure (barg)
Manifold racks	120 - 540 Nm <sup>3</sup>	200 - 300
Gas cylinders	6 - 50 litres	150 - 200
Tube trailers	3500 - 5400 Nm <sup>3</sup>	200

Talk to our applications engineers to identify the right solution for you.



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Gulf Cryo subsidiaries are members of:



The Compressed Gas Association



The International Oxygen Manufacturers Association



European Industrial Gases Association

For over 60 years, Gulf Cryo has been manufacturing and supplying industrial, medical and specialty gases to a wide range of industries across the Middle East. Established in 1953 as the Kuwait Oxygen and Acetylene Company, the Gulf Cryo group now comprises of over 30 production and distribution sites operating in 12 countries, including all of the GCC, Jordan, Syria, Egypt, Iraq, Turkey and Austria.

CO<sub>2</sub>

O<sub>3</sub>



## Water Treatment Gas Applications

O<sub>2</sub>



### Our Services

Gulf Cryo offers several services to the wastewater industry in order to improve the overall performance of the treatment process and make it environmentally friendly. Our experts work closely together with customers in order to achieve tailor-made solutions that target their needs directly.

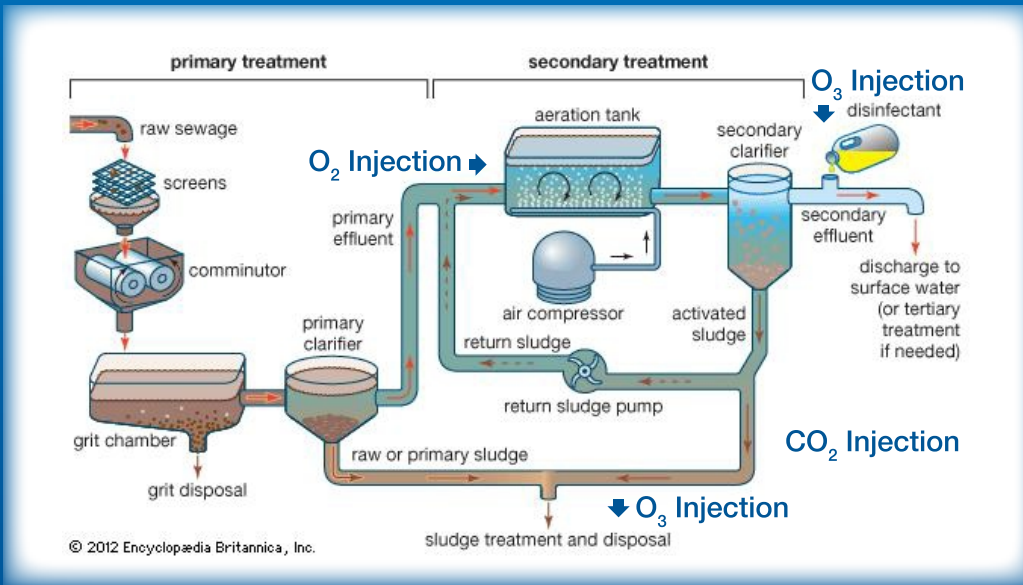
### The Industry Challenge

The wastewater industry strives to reach the highest possible yields while minimizing energy and material costs. Currently, the major challenge for the treatment plants is reaching a full capacity and not being able to accommodate for the increasing demands.

Due to the increasing environmental regulations, a new challenge has also emerged and it consists of minimizing the usage of chemicals, while retaining the efficiency of the process and the quality of the product.



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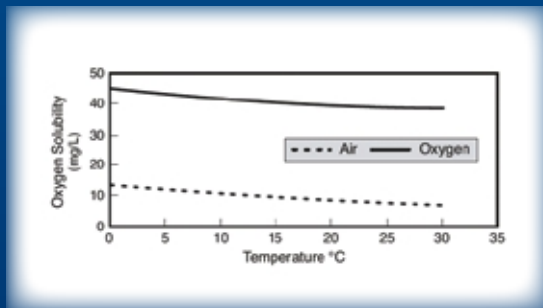
Pure Gases	Purity
Oxygen (O2)	99.5%
Carbon Dioxide (CO2)	99.9%

For Ozone requirements, on-site ozone generation is set up along with Oxygen supply.



### Benefits of Oxygen Injection Compared to Standard Aeration

- Increases treatment capacity using the same facility, without the need for additional investment
- Reduces odors & volatile organic compounds emission
- Saves up to 40% in energy and operating expenses
- Reduces Hydrogen sulfide (H2S) formation
- Reduces aerosol formation
- Improves sludge settling
- Complies with stricter water discharge standards
- Diminishes hydraulic breakdowns

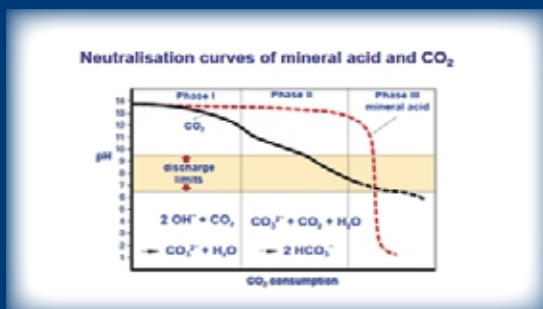


### Benefits of Ozone Injection Compared to Standard Chlorination

- Enhanced disinfection as Ozone is the most effective disinfectant
- Removal of organic & inorganic matter, including micro-pollutants such as pesticides
- Reduction of sludge by up to 80%
- Odour and taste elimination

### Benefits of Carbon Dioxide Injection Compared to Standard Acidification

- Eco-friendly, safe and simple pH control
- No possibility of overdosing
- No handling of hazardous acids
- Low investment & operating costs
- No corrosion problems



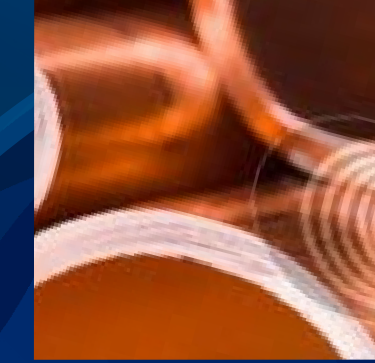
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## Steel & metals industry



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For over half a century, Gulf Cryo has been supplying gases and developing new gas mixtures for applications in the steel and metals industry.

Gulf Cryo subsidiaries are members of:



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## Helping you boost productivity, reduce costs and improve environmental impact

### Our geographic reach

Gulf Cryo is a leading manufacturer of industrial, medical, food-grade, and specialty gases in the Middle East. Covering all of the GCC, Jordan, Syria, Pakistan, Egypt and Iraq, our highly skilled engineers work with the steel and metals industry developing technology to advance processes and techniques through innovative gas applications.



### Our gas solutions

Application	Our products	Benefit to you	Our services
Oxyfuel for furnaces	• Oxygen	• Increase production rates	• Supply of pure and mixed gases
N <sub>2</sub> for blanketing	• Nitrogen	• Achieve faster melt rates	• Gas supply schemes on bulk
Oxygen for smelting operations	• Oxygen	• Increase heat transfer	• On-site equipment maintenance
Oxygen in electric arc furnaces	• Argon	• Increase flame temperature	• Product inspection and testing
Argon/Oxygen Decarburisation (AOD)	• Argon	• Increase reaction rate	• Production of mixed gas cylinders
Extrusion Press; N <sub>2</sub> for cooling dies	• Hydrogen	• Reduce volume of flue gases	• Bulk gas installation
Refining; H <sub>2</sub> is used to reduce oxides, O <sub>2</sub> is used to reduce impurities	• Gas mixtures	• Improve quality for finished products	• Pipelines and commissioning of gas delivery
H <sub>2</sub> for steel heat treatment		• Lower fuel costs	• Bulk installation
Annealing; H <sub>2</sub> prevents oxidation and improves surface brightness and quality			• Technical support and technical support
Gas mixtures for post-treatment			• Cylinder repair and gas testing
Vacuum degassing			• On-site equipment maintenance
			• Cryogenic storage tank system installation

### Our gases

Our gases are ISO certified. Gases and gas mixtures are prepared under controlled conditions following strict international gas industry standards, ensuring tolerances are clearly defined.

Pure gases (Liquid and compressed)	Purity
Acetylene	99.9995%
Nitrogen	99.999%
Carbon Dioxide	99.999%
Hydrogen	99.999%
Oxygen	99.999%
Nitrous Oxide	95%
Argon/Carbon Dioxide mixture	
Argon/Helium mixture	
Argon/Hydrogen mixture	

### Our supply and packaging options

With 18 subsidiaries covering ten countries in the Middle East, Gulf Cryo covers a vast territory offering the supply of gases and the installation of equipment. We will provide you with the best available supply package to suit your business requirements.

Bulk package	Capacity	Working pressure (barg)	Working pressure (barg)
Cryogenic cylinders (liquid gases)	2000 - 25000 litres	30 - 50	30 - 50
Gas pipeline connection	100 - 10000 m <sup>3</sup>	10 - 20	10 - 20
Compressed gases Bulk gases	Capacity	Working pressure (barg)	Working pressure (barg)
Manifold racks	120 - 540 Nm <sup>3</sup>	200 - 300	200 - 300
Gas cylinder storage tanks	6 - 50 2000 - 75,000 litres	166 - 200	166 - 200
Gas cylinders (Devars)	Oxygen 180 000 litres	16-22	16-22
Compressed gases	Capacity	Working pressure (barg)	Working pressure (barg)
Manifold racks	120 - 540 Nm <sup>3</sup>	200 - 300	200 - 300
Tube trailers	3500 - 5400 Nm <sup>3</sup>	200	200
Cylinders	1.5 - 10 Nm <sup>3</sup>	150 - 200	150 - 200

Talk to our applications engineers to identify the right solution for you.

### Mobile Distribution Systems (MDS)

A unique system to Gulf Cryo. MDS includes one 180 litre Liquid Oxygen container, one eight cylinder Acetylene rack and two individual manifolds – one for Oxygen and one for Acetylene, with five outlets for each gas. Each manifold is provided with a master regulator and each outlet point is conveniently mounted on a steel frame. The MDS is safely mounted on a truck.

Benefits to the customer

- Customised quality welding due to continuous supply
- Safer - cylinders are mounted and fitted in



### The customer challenge

The steel and metals industry is one of the most demanding and complex manufacturing sectors. The industry is facing significant challenges such as increasing production costs, reducing energy consumption, and improving environmental performance. The industry is also facing a shortage of skilled workers and a need for more efficient production processes. Gulf Cryo provides a wide range of gas solutions to help the industry overcome these challenges. Our products and services are designed to improve productivity, reduce costs, and improve environmental impact. We offer a comprehensive range of gas solutions, including pure gases, gas mixtures, and gas delivery systems. Our services include gas supply, equipment maintenance, and technical support. We work closely with our customers to understand their needs and provide tailored solutions. Our team of experienced engineers and technicians is dedicated to providing the highest quality service to our customers. We are committed to continuous improvement and innovation, ensuring that we remain the industry leader in gas supply and services.

### How we work with you

Gulf Cryo's dedicated technical team understands the challenges you face and provides you with the right gas solution for your application. We supply and deliver gases as Oxyfuel, Argon, Nitrogen, Hydrogen, and Gas mixtures. Our products and services are designed to improve productivity, reduce costs, and improve environmental impact. We offer a comprehensive range of gas solutions, including pure gases, gas mixtures, and gas delivery systems. Our services include gas supply, equipment maintenance, and technical support. We work closely with our customers to understand their needs and provide tailored solutions. Our team of experienced engineers and technicians is dedicated to providing the highest quality service to our customers. We are committed to continuous improvement and innovation, ensuring that we remain the industry leader in gas supply and services.

Our engineers can also design and implement a total gas management service including the installation and commissioning of manifold racks, gas cylinder storage tanks, and gas pipeline connection. We also provide a comprehensive range of gas delivery systems, including mobile distribution systems (MDS) and gas pipeline connection. We are committed to providing the highest quality service to our customers. We are committed to continuous improvement and innovation, ensuring that we remain the industry leader in gas supply and services.



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### Healthcare industry





For over half a century, Gulf Cryo has been supplying gases and developing new applications for the healthcare industry.

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### Helping you deliver critical medical care for patients

**Our geographic reach**

Gulf Cryo is a leading manufacturer of industrial, medical, food-grade, and specialty gases in the Middle East. Covering all of the GCC, Jordan, Syria, Pakistan, Egypt and Iraq, our highly skilled engineers work with healthcare professionals developing technology to advance processes and techniques through innovative gas applications.



#### Our gas solutions

Applications	Our products	Our services
Anaesthesia Resuscitation Preservation of human tissues and biological specimens Calibration and operation of analytical instruments Freezing Oxygen therapy – breathing Analgesia and sedation Sterilization MRI scans	Liquid and compressed pure gases Gas mixtures for blood gas analysers Gas mixtures for respiratory disorders Sterilization mixtures	Production and supply of high quality medical and specialty gases Installation of equipment Maintenance of pipeline systems Maintenance of customer owned cylinders Engineered delivery system Traceable supply chain Secondary equipment and accessories supply Homecare services including home delivery

### The customer challenge

As the population gets older and more patients suffer from chronic diseases, there is a tremendous pressure on the healthcare industry to maintain and improve clinical and emergency care and home care for post-clinical patients. Hospitals, clinics and laboratories require a continuous supply of high-quality medical and specialty gases, as well as failsafe systems to store and route gases to many locations from operating theatres to the patient's home.

### How we work with you

Gulf Cryo's dedicated team understands the challenges healthcare professionals face to find the right gas solution to help improve the quality of life for their patient. We supply a complete medical gas supply service, including storage, installation of equipment, accessories, warehouse management and dedicated delivery personnel for emergency situations. All Gulf Cryo medical gases are compliant with American, European and international medical engineering standards and pharmacopoeia standards, ensuring quality and safety for your patients.

#### Pure gases (Liquid and compressed)

Pure gases (Liquid and compressed)	Purity
Carbon Dioxide	99.9%
Helium	99.9999%
Medical air	19.5 – 23.5%
Nitrogen	99.999%
Nitrous Oxide	99.9%
Oxygen	95%
Sulphur Hexafluoride	

#### Our supply and packaging options

With 13 subsidiaries covering ten countries in the Middle East, Gulf Cryo covers a vast territory offering the supply of gases and the installation of equipment.

Bulk gases	Capacity	Working pressure (barg)
Cryogenic storage tanks	2000 - 75,000 litres	3 - 30
Liquid gas cylinders and Dewars	180 - 1000 litres	2-37

Compressed gases	Capacity	Working pressure (barg)
Manifold racks	120 - 540 Nm <sup>3</sup>	200 - 300
Gas cylinders	6 - 50 litres	150 - 200

Talk to our applications engineers to identify the right solution for you.



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