



**Our Creative Energy  
Has No Limits**

# BARRAK GAS

## Who are we

One of the leading producers and distributors in industrial, medical, high purity, specialty gases, food grade and mixtures.

Our passion for excellence pushes us to keep up with our best ambition to rise in leadership for the coming decades.





## Our History

Our history begins in 2008 when Al-Barrak Group Company founded Barrak Industrial Gases Factory to enter the gas industry, BGAS has progressed steadily until it reached leadership within decade

BGAS's history is more than the stores we have built, the partnerships we have made and the customers we have served. So much of our history is in the details.

# Services

BGAS provides many services in the industrial gases field such as:

Nitrogen Purging & pressure test: Essential when the required nitrogen supply exceeds a plant's ability to maintain the high flow rate often required during shutdowns and other maintenance procedures.

Hydrotest: A way can test gas cylinders for strength and leaks with an official certificate.

Analysis Service: A laboratory can test gases with advanced test methods.

## Clusters

Stainless steel Containers

Aluminum Alloy Containers



BGAS PROFILE



# Delivery

- Tankers
- Mobile Tank
- ISO Tank
- Trucks
- Clusters

Stainless steel Containers

Aluminum Alloy Containers

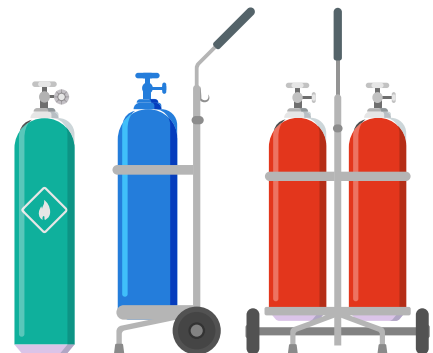


# Products



**Pure Gases:** (includes industrial, medical, high purity, food grade)

O<sub>2</sub>, N<sub>2</sub>, Ar, CO<sub>2</sub>, N<sub>2</sub>O, C<sub>2</sub>H<sub>2</sub>, Zero Air, He, H<sub>2</sub>, NH<sub>3</sub>



BGAS PROFILE

# Oxygen



Overview: Oxygen gas can be used in industrial and medical applications such as production of steel, plastics and textiles, brazing, welding and cutting of steels and other metals, rocket propellant, oxygen therapy, and life support systems in aircraft, submarines, space-flight, and diving



# Product Specification

cylinder Size	Cylinder Volume	Valve / Pressure	Standard Valve outlet (CGA)	Cylinder Color	Purity Grade
K	40 Ltr.	2000 PSI	540	Green	Industrial
K	40 Ltr.	2000 PSI	540	White	Medical
M	20 Ltr.	2000 PSI	540	White	Medical
F	10 Ltr.	2000 PSI	540	White	Medical
E	5 Ltr.	2000 PSI	540 / Pin 870	White	Medical

NFPA Rating			
3	0	0	OX

Hazard Sign:



# Nitrogen



Overview: Nitrogen gas can be used in chemicals, and petroleum industries, storage tank purging and vessel inerting applications, electrotonic and metals industries, etc.





## Product Specification

cylinder Size	Cylinder Volume	Valve / Pressure	Standard Valve outlet (CGA)	Cylinder Color	Purity Grade
K	40 Ltr.	2000 PSI	580	Blue	Industrial
K	40 Ltr.	2000 PSI	580	Blue	high purity
K	40 Ltr.	2000 PSI	580	Blue	ultra-high purity

NFPA Rating			
3	0	0	



# Argon

Ar:

Overview: Argon gas is used primarily for its properties as an inert gas in applications such as arc welding, steelmaking, heat treating and electronic manufacturing.





## Product Specification

cylinder Size	Cylinder Volume	Valve / Pressure	Standard Valve outlet (CGA)	Cylinder Color	Purity Grade
K	40 Ltr.	2000 PSI	580	Grey	Industrial
K	40 Ltr.	2000 PSI	580	Grey	High purity
K	40 Ltr.	2000 PSI	580	Grey	Ultra-High Purity

NFPA Rating			
0	0	0	





# Acetylene



Overview: Acetylene gas is most efficient of all fuel gases. It can be used in industries applications such as cutting, welding, flame straightening and brazing.



## Product Specification

cylinder Size	Cylinder Volume	Valve / Pressure	Standard Valve outlet (CGA)	Cylinder Color	Purity Grade
Big	40 Ltr.	5KG	300	Orange	Industrial
Small	10Ltr.	0.5KG	200	Orange	Industrial

NFPA Rating			
1	4	3	

Hazard Sign:



# Carbon dioxide



Overview: Carbon dioxide gas is used as a shielding gas in the arc welding process, a refrigerant, in fire extinguishers, for inflating life rafts and life jackets, blasting coal, foaming rubber and plastics, promoting the growth of plants in greenhouses, and in carbonated beverages.





## Product Specification

cylinder Size	Cylinder Volume	Valve / Pressure	Standard Valve outlet (CGA)	Cylinder Color	Purity Grade
K	40 Ltr.	25KG	320	Silver	Industrial Grade
K	40 Ltr.	25KG	320	Silver with one red ID	Medical / Food Grade
E	5 Ltr.	2.5KG	320 / Pin 940	Silver with one red ID	

NFPA Rating			
3	0	0	



# Helium

He:

Overview: Helium gas is used as an inert gas in the arc welding process, and because of its low specific gravity and non-flammability it's often used in lighter than air applications such as filling of balloons and blimps, high purity grade of helium can be used as Carrier gas for Gas Chromatography, Mixture of helium and oxygen are used as a breathing gas in deep sea diving.





## Product Specification

cylinder Size	Cylinder Volume	Valve / Pressure	Standard Valve outlet (CGA)	Cylinder Color	Purity Grade
K	40 Ltr.	2000 PSI	580	Yellow & Black	Industrial Grade
K	40 Ltr.	2000 PSI	580	Yellow & Black	High Purity Grade
E	40 Ltr.	2000 PSI	580	Yellow & Black	Ultra-High Purity Grade

NFPA Rating			
3	0	0	



# Hydrogen



Overview: Hydrogen is widely used in petroleum refining processes, such as hydro-treating, catalytic reforming and hydro-cracking. It's a raw material for many chemical processes ranging from manufacturing high density polyethylene and polypropylene resins to the hydrogenation of food grade oils. Hydrogen is also used as a reducing gas in metals processing operations.



## Product Specification

cylinder Size	Cylinder Volume	Valve / Pressure	Standard Valve outlet (CGA)	Purity	Cylinder Color
K	40 Ltr.	2000 PSI	350	Industrial Grade	Red
K	40 Ltr.	2000 PSI	350	High Purity Grade	Red

NFPA Rating			
3	4	0	

Hazard Sign:





# Nitrous oxide



Overview: Nitrous oxide is used in surgery and dentistry for its anesthetic and analgesic effects, where it's commonly known as laughing gas due to the euphoric effects on laughing.



## Product Specification

cylinder Size	Cylinder Volume	Valve / Pressure	Standard Valve outlet (CGA)	Purity	Cylinder Color
E	5 Ltr.	2KG	326/ Pin 910	Medical Grade	Dark Blue
K	40Ltr.	25KG	326	Medical Grade	Dark Blue

NFPA Rating			
3	0	0	OX

Hazard Sign:



# Gas Mixtures:



# Ar / CO<sub>2</sub> mixture (%)

Overview: Used as a welding shielding gas, short-circuit or spray transfer welding of carbon steel, all kinds of structural steel, farm implements and machinery.

Product Specification					
cylinder Size	Cylinder Volume	Valve / Pressure	Standard Valve outlet (CGA)	Purity	Cylinder Color
K	40 Ltr.	2000 PSI	580	Industrial Grade	Grey with silver shoulder line

NFPA Rating			
1	0	0	





## Dry Ice: I

Overview: Used to preserve food, non-cyclic refrigeration.

Packaging items that must remain cold or frozen.

Special effects like creating clouds of true water vapour fog.



# LIQUID PURE GASES

LOX

LIN

LAR

LCO<sub>2</sub>





## Specialty Gases

Specialty gases can be used in Large range of instrument applications such as in laboratories, energy companies, petrochemical refinery industries support gases, calibration gases, zero gases, carrier gases, span gases, instrumentation gases, Ultra High purity pure gases, High precision multi-component gas Mixtures and bump test gases.





# Custom Mixtures

BGAS technicians will work with you to custom your mixture to meet your exact application needs.



# Cylinders Standard Chart

Gas Name	Chemical Formula	Cylinder Color	Cylinder Volume	Cylinder Size	Cylinder Length W. valve	Cylinder Dimeters	Cylinder Wight Empty	Working pressure	Testing Pressure	Cylinder Valve	Valve/ Pressure	Hazards	Safety Signs R	NFPA Rating				
														H	F	R	S	
Acetylene	C2H2	Yellow	40 Liter	Big	1075mm	250mm	40 Kg	30 bar	52 bar	CGA 300	5 Kg	Flammable	FL	0	4	2		
Argon	Ar	Gray	40 Liter	K	1350mm	219mm	50Kg	150 bar	250 bar	CGA 580	2000 PSI	Asphyxiate	NF I CM	0	0	0		
Carbon dioxide	CO2	Silver	40 Liter	K	1350mm	219mm	50Kg	150 bar	250 bar	CGA 320 (Pin940)	25Kg	Asphyxiate	NF	1	0	0		
Carbon dioxide	CO2	Silver	5 Liter	E	840mm	210mm	7,8Kg	150 bar	250 bar	CGA 320 (Pin940)	2,5Kg	Asphyxiate	NF	1	0	0		
Helium	He	Yellow & Black	40 Liter	K	1350mm	219mm	50Kg	150 bar	250 bar	CGA 580	2000 PSI	Asphyxiate	NF I CM	0	0	0		
Hydrogen	H2	Red	40 Liter	K	1350mm	219mm	50Kg	150 bar	250 bar	CGA 350	2000 PSI	Flammable	NF I CM	0	0	0		
Nitrogen	N2	Blue	40 Liter	K	1350mm	219mm	50Kg	150 bar	250 bar	CGA 580	2000 PSI	Asphyxiate	NF I CM	0	0	0		
Nitrous Oxide	N2O	Dark Blue	40 Liter	K	1350mm	119mm	50Kg	150 bar	250 bar	CGA 326 (Pin910)	25Kg	Asphyxiate	NF I OX	2	0	0		OX
Nitrous Oxide	N2O	Dark Blue	5 Liter	E	840mm	210mm	7,8Kg	150 bar	250 bar	CGA 326 (Pin910)	2,5Kg	Asphyxiate	NF I OX	2	0	0		OX
Oxygen	O2	Green Industrial White (medical)	40 Liter	K	1350mm	119mm	7,8Kg	150 bar	250 bar	CGA 540	2000 PSI	Oxidizer	OX I CM	0	0	0		OX
Oxygen	O2	White (medical)	10 Liter	F	950mm	140mm	13,5Kg	150 bar	250 bar	CGA 540	2000 PSI	Oxidizer	OX I CM	0	0	0		OX

## Regulators

BGAS provides Effective High Purity Regulators that can protect the system from potential contaminants that may be present in the ambient atmosphere.

Regulators are designed for use with gases that are 99.995% pure or higher, to meet your high purity standards.

# valve

Gas Type	Standard	Valve Type	Maximum Pressure
Oxygen	CGA	CGA 540	150 bar / 2000 PSI
Nitrogen	CGA	CGA 580	150 bar / 2000 PSI
Argon	CGA	CGA 580	150 bar / 2000 PSI
Helium	CGA	CGA 580	150 bar / 2000 PSI
Carbon dioxide	CGA	CGA 320	150 bar / 25 KG
Hydrogen	CGA	CGA 350	150 bar / 2000 PSI
Acetylene	CGA	CGA 300	30 bar / 5KG

-Containers

Liquid Nitrogen Aluminum Alloy, Stainless steel

-Storage Tank

Capacity: all sizes as required





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