



A K Oxygen Pvt Ltd.

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PRODUCTS:

Industrial Gases

Dissolved Acetylene Gas

Argon Gas

Nitrogen Gas

Hydrogen Gas

Zero Air

Helium Gas

Oxygen Gas

Carbon Dioxide Gas

Mixture Gas(ACM)

Ammonia Gas

Special Gas

Cryogenic Liquids

Liquid Argon

Liquid Oxygen

Liquid Nitrogen

Medical Gases

Oxygen Gas

Nitrous Oxide Gas

Industrial Oxygen Gas:

- Product: Oxygen
- Chemical Formula: O₂
- Type: Colorless, Flammable
- Supply form: Industrial Cylinder, Dura Cylinders
- Quantity: 6-7 m³ per
- Cylinder Purity: 99.9%



Description:

- AK oxygen is a renowned Oxygen gas manufacturer and supplier, both in liquid and compressed Gas forms. Oxygen is a highly reactive nonmetallic oxidizing agent, is tasteless, odorless, colorless and nonflammable gas present in the atmosphere at a concentration of 21 % by volume.
- It has a boiling point of -182.9°C (-297.3°F). Oxygen is vital to life on earth for any living being.
- Commercial Oxygen Gas is produced by Cryogenic Distillation/air separation plants which condenses air and distills liquid Oxygen. This liquid Oxygen further converted into gaseous Oxygen at room temperature and is being stored in Oxygen Gas Cylinders for any further industrial / lab grade applications.

Applications:

Industry sector, SS foundry, Fabrication Workshop, ship building and cutting. furnace lancing. Chemical, pharmaceuticals and petroleum industry. Glass, pulp and paper industry. Health care.

Carbon Dioxide Gas:

Product: Carbon Dioxide

Chemical Formula: CO₂

Type: Colorless

Supply form: Industrial Cylinder

Quantity: 30-35Kg per Cylinder

Purity: 99.9%



Description:

- We are a renowned Carbon dioxide gas manufacturer and supplier, both in liquid and compressed gas forms.
- Carbon dioxide (CO₂) is a slightly toxic, odorless, colorless gas with a slightly pungent and acidic taste. In air, Concentrations of carbon dioxide is about 0.038% by volume.
- Carbon dioxide gas is commercially produced by fermentation of Sugar compounds in beer, bread and liquor making industry as it's by product.
- Other way of its production is by combustion of carbohydrates, natural gases and fossil fuel like wood and coal. The CO₂ produced is liquid in nature. This liquid CO₂ is being stored in carbon dioxide gas cylinders for any further industrial/lab grade applications.

Applications:

Fire extinguishers, Co₂ welding, Foundry sector. Dry ice for cooling beverages.

Dissolved Acetylene Gas

Product: DA

Chemical Formula: C₂H₂

Type: Colorless Flammable

Supply form: Industrial Cylinder 6-7 m³

Quantity: per cylinder

Purity: 99.9%

Description:

- We are a renowned Acetylene gas manufacturer and supplier in India. This Acetylene sometimes also referred as DA Gas, is a hydrocarbon. It is basically colorless fuel gas and is used extensively in the industries for metal cutting and brazing applications. Acetylene produces highest known flame temperature when mixed with Oxygen.
- Commercially it is produced by reaction of Calcium Carbide with water. The Acetylene is highly unstable in nature and needs to be dissolved in a solvent called Acetone or DMF. Because of its highly unstable nature, Acetylene is always stored in Acetylene gas cylinders already saturated with required quantity of solvent. Acetylene cylinders are basically of 2 types, Seamless and Three Parts Welded.
- Acetylene is sometimes also referred to as Dissolved Acetylene because it has to be stored in dissolved state in a solvent.

Applications: Metal cutting industry



Nitrogen Gas:

Product: Nitrogen

Chemical Formula: N₂

Type: Colorless, Flammable

Supply form: Industrial Cylinder

Quantity: 6-7 m³ per Cylinder

Purity: 99.9%

Description:

- We are renowned Nitrogen gas manufacturer and supplier both in liquid and compressed gas forms.
- Nitrogen Gas is tasteless, odorless, colorless and nonflammable gas present in the atmosphere at a concentration of 78.09 % by volume. It has a boiling point of -195.8°C (-320.4°F). Nitrogen Gas is produced by Cryogenic Distillation/air separation plants which condenses air and distills liquid Nitrogen.
- This liquid Nitrogen is further converted into gaseous Nitrogen at room temperature and is being stored in Nitrogen Gas Cylinders for further use in any Industrial application.
- For some applications where continuous and high quantity of N₂ gas is required to be fed, we make use of N₂ gas cylinder quad which is nothing, but the number of cylinder interconnected and having common outlet. Due to its high availability in atmosphere and low cost, Nitrogen gas and liquid finds huge application in various processes.

Applications: Industry sector, degassing in aluminum foundry, inert gas in chemical sector, Animal husbandry, pharmaceutical, food processing industry.



Argon Gas

Product: Argon

Chemical Formula: Ar

Type: Colorless

Supply form: Industrial Cylinder

Quantity: 6-7 m³ per Cylinder

Purity: 99.9%

Description

- We are renowned Argon gas manufacturer and supplier in India, both in liquid and compressed forms.
- Argon is an Inert, tasteless, odorless, colorless, nonflammable and Non-Toxic gas present in the atmosphere at a concentration of 0.934 % by volume. It has a boiling point of - 185.9°C (-302.6°F). Argon is produced by Cryogenic Distillation/air separation plants which condenses atmospheric air and distills liquid Argon.
- This liquid Argon is collected, stored and further converted into gaseous Argon at room temperature and this Argon gas is further stored in various types of Argon gas cylinders to be used in any industrial/lab grade applications.

Applications: metallurgy and Stainless steel industry. Argo shield mixture-sheet Metal welding. Lab application. Electronics industry.



Hydrogen

Product: Hydrogen

Chemical Formula: H₂

Type: Colorless

Supply form: Industrial Cylinder

Quantity: 6-7 m³ per Cylinder

Purity: 99.9%

Description

- Hydrogen as a gas is valued for its reactive and protective properties. Many industries such as electronics, foods, glass, chemicals, refining and more can benefit from its unique properties to improve quality, optimize performance and reduce costs.

Applications: Glass purification. Semiconductor manufacturing. Aerospace applications. Fertilizer production. Welding, annealing and heat-treating metals. Pharmaceuticals.



Liquid Nitrogen

Product: Nitrogen

Chemical Formula: N₂

Type: Colorless, Flammable

Supply form: Industrial Cylinder

Quantity: 5,10,20,35,50,51.7 As Per Container capacity (in Ltr)

Purity: 99.995%

Description

- Nitrogen Gas is tasteless, odorless, colorless and nonflammable gas present in the atmosphere at a concentration of 78.09 % by volume. It has a boiling point of -195.8°C (-320.4°F). Nitrogen Gas is produced by Cryogenic Distillation/air separation plants which condenses air and distills liquid Nitrogen.
- This liquid Nitrogen is further converted into gaseous Nitrogen at room temperature and is being stored in Nitrogen Gas Cylinders for further use in any Industrial application. For some applications where continuous and high quantity of N₂ gas is required to be fed, we make use of N₂ gas cylinder quad which is nothing, but the number of cylinder interconnected and having common outlet. Due to its high availability in atmosphere and low cost, Nitrogen gas and liquid finds huge application in various processes.

Applications: Lab Veterinary Cooling.



Liquid Chlorine

Product: Chlorine

Chemical Formula: Cl

Type: Greenish Yellow

Supply form: Industrial cylinder

Quantity: 100,900Kg Cylinder

Purity: 99.995%

Applications: Safe Drinking Water Wastewater Treatment Chemical industry.



Nitrous Oxide

Product: Nitrous Oxide

Chemical Formula: N₂O

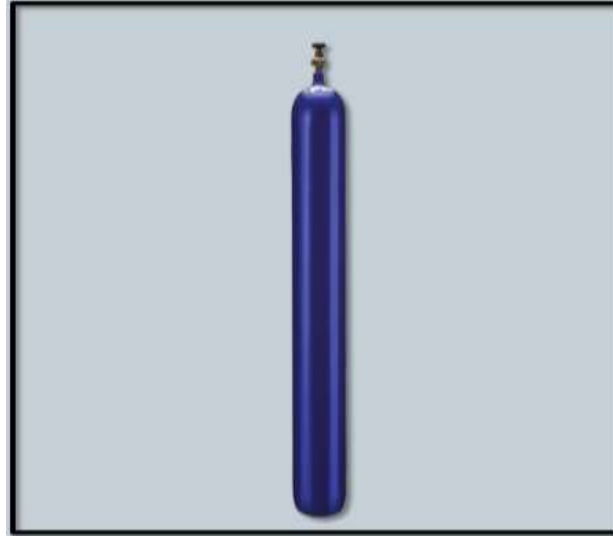
Type: Colorless, Non-flammable

Supply form: Medical Cylinder

Quantity: 60 Kg Cylinder

Purity: 99.995%

Applications: Health Care



Helium Gas

- Product: Helium
- Chemical Formula: He
- Type: Helium is a colorless odorless gas. It is lighter than air. It is nonflammable and is only slightly soluble in water. Helium is a colorless, odorless, insipid and non-toxic gas.
- Supply form: Industrial Cylinder
- Quantity: 60 Kg Cylinder
- Cylinder Purity: 99.9%

Description/Applications:

- Various industries use helium to detect gas leaks in their products.
- Helium is a safe tracer gas because it is inert.
- Manufacturers of aerosol products, tires, refrigerators, fire extinguishers, air conditioners and other devices use helium to test seals before their products come to market.
- Helium is a colorless, odorless, insipid and non-toxic gas.



Ammonia Gas

Product: Ammonia Gas

Chemical Formula: NH_3

Type: At room temperature, ammonia is a colorless, highly irritating gas with a pungent, suffocating odor. In pure form, it is known as anhydrous ammonia and is hygroscopic (readily absorbs moisture). Ammonia has alkaline properties and is corrosive.

Supply Form: Industrial Cylinder

Quantity: 60 Kg Cylinder

Cylinder Purity: 99.9%

Application and Description:

- Ammonia is used in wastewater treatment, leather, rubber, paper, food and beverage industries.
- It also is used in cold storage, refrigeration systems and in the production of pharmaceuticals. Ammonia is used in the printing as well as cosmetics industries.
- It is also used in fermentation.



ACM (Argon + Co2)

Product: ACM

Chemical Formula: ArCo2

Type:

Supply Form: Industrial Cylinder

Quantity: 60 Kg Cylinder

Cylinder Purity: 99.9%

Applications:

- Argon Carbon Dioxide blends are used for all kinds of structural steel, farm implements and machinery.
- Lower levels of CO2 can be used for pulsed arc or spray arc welding, while higher levels > 20% are used for short arc welding and the shielding of some flux-cored wires.

Description:

- Argon is a typical gas choice for many welding applications. Argon is inert, enabling it to form a nonreactive gas shield that protects the weld. It also won't form compounds with other materials that could negatively impact the workpiece's quality and performance. Many argon-compatible gases can improve welding results. Combining argon with carbon dioxide (CO2) increases penetration, stiffens the arc and helps prevent oxidation of the weld metal.
- A Meritus Gas Partners supplier can provide various argon-carbon dioxide mixtures to meet your welding needs. You'll get a high-quality product that adds value to your processes and receive reliable support.

