

WHAT IS CARBON DIOXIDE

Carbon dioxide is a colorless and non-flammable gas at normal temperature and pressure. It is an important constituent of our planet's air. Carbon dioxide is an important greenhouse gas that helps to trap heat in our atmosphere. Without it, our planet would be inhospitably cold.

PHYSICAL AND CHEMICAL PROPERTIES

Carbon dioxide appears as a colorless odorless gas at atmospheric temperatures and pressures. Soluble in water and relatively non-toxic and non-combustible. CO₂ is heavier than air with a density of 1.977g/ml and has melting point of -55.6°C & boiling point of -78.5°C.

Carbon dioxide is a gas at room temperature and atmospheric pressure, and becomes a liquid under sufficiently high pressure and low temperature. If the pressure of Liquid CO₂ is reduced, the temperature drops and the liquid carbon dioxide solidifies into a snow-like substance at the temperature -78°C commonly known as dry ice.



APPLICATIONS OF CARBON DIOXIDE THE VERSATILE GAS

1. CO₂ is widely used as a preferred shielding gas in MIG welding in Automobile, heavy and continuous fabrication industries.
2. Commonly used in carbonated drinks, beverages for increased lifecycle and adding the fresh and tangy taste.
3. CO₂ is used in Bottling and canning for inert purging and container pressurizing.
4. In the Catering and food industry as a Cryogenic cooling and freezing agent.
5. As a greenhouse gas to facilitate growth in plants, fruits and vegetables.
6. Used in reaction to produce different chemicals in process industries.
7. Used in Water treatment of Waste water and also Cleaning of Drinking water.

MANUFACTURING LOCATIONS

Mumbai, Pune, Surat, Vadodara, Solapur, Ahmednagar, Aurangabad, Dharmabad

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WHY US

SUPPLY CLOSER THAN YOU THINK

1. With the largest production capacity and associated with the most reliable raw gas source, infiniti gases is committed for 100% Assurance and In-time supply to its customers.
2. Robust network of production plants and distribution capabilities
3. Tailor made solutions as per customers needs and demands
4. Dedicated fleet of specially designed tankers of various capacities to serve customers. Excellent record of meeting ontime needs
5. Dedicated technical team to provide the most advance and updated technology to reduce your input cost



END TO END SOLUTIONS

Our technical team is always there to provide complete solutions to the end user for their requirement of Carbon Dioxide. It also undertakes sale and installation of liquid CO₂ storage tank at customers premises along with refrigeration systems, vaporizers, pressure regulators, etc complete solution on turnkey basis . also we offer storage tank systems on a rental basis to our customers. We also provide safety audits, technical audits, training to operators, PESO consultancy based on customers' requirements.

SUPPLY OPTIONS

For your requirement of carbon dioxide, we can help you to determine the aptly suitable, safe , reliable and economical option based on your application & geographic location.

- a) **Supply in Cylinders** : The traditional solution for low volume requirement. Compressed CO₂ can be supplied in returnable cylinders of various sizes as per your application and requirement.
- b) **Microbulk** : A convenient and cost effective solution for mid-size to high volume customers where in Liquid CO₂ is supplied in returnable microbulk containers of 200 liters to 1000 liters sizes.
- c) **Bulk Supply** : In case of high volume requirement of CO₂, Liquid CO₂ is supplied in Truck/Tankers of high capacity and CO₂ is stored in specially designed storage tank installed at customer premises.

