UN No: 1013 Hazard No: 2(T)E



Carbon Dioxide

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Specification	Cylinder	
Cylinder Contents m3 (101.325kPa @ 15*C)	30kg	
Water Capacity per cylinder	50L	
Cylinder Pressure – kPa @ 15*C	5000	
Cylinder Colour	Green Grey	
Outlet Connection	Type 30	
Dimensions	230mm x 1619mm	

Cylinder dimensions are approximate – variations occur due to manufacturing tolerances. Height includes the valve.

Typical Analysis

Product Name	CO2	O2	Moisture
Carbon Dioxide	99.5%	<30ppm	<20ppm

Description

Carbon Dioxide is a non-flammable gas which does not support combustion. It is colourless and odourless and non-toxic.

Typical uses

The food industries consume most of the carbon dioxide produced. It is employed for;

- Carbonation of soft drinks, lemonade, soda etc
- Recharging of natural mineral waters with carbon dioxide
- Tapping of beer and prevention of oxidation through contact with the air
- Accelerating the growth of farm produce as an atmosphere additive

It is employed in the chemical industry in the following applications;

- Tanning of hides
- Production of paints and varnishes
- Ph control of some sedentary alkalis

It is used in the fabrication industry in the following way;

MIG welding usually with flux core wires

Main Hazards

Inhalation of carbon Dioxide in high concentration is dangerous to respiration. At very high concentrations leads to loss of consciousness and eventually death.

Telephone: (675)3218187

Information Sheet Number 6

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Storage and handling

- Keep cylinders upright and protect the valve from physical damage. Secure cylinders when standing.
- Ensure all cylinders are correctly labelled
- Ensure area is well ventilated. Check regularly for leaks. Close all valves when not in use.
- Ensure all regulators and fittings are free from dust and oil
- External storage is preferred. Do not store cylinders in an area where any leaking gas could accumulate
- If valve is damaged, do not attempt to operate
- Never use lubricants to valves or regulators
- If valve does not operate by hand, return the cylinder to the supplier (attach a faulty cylinder tag)

Note: Only regulators, manifolds and ancillary equipment, rated for the appropriate pressure and compatible with the relevant gas, shall be connected to or downstream of these cylinders.

In case of leaks

- Remove to well ventilated area
- Stop leak if possible to do so
- Evacuate away from direction of movement of gas
- If leak cannot be stopped, move cylinder to a safe area and allow to empty
- When empty, close the valve and return the cylinder to the supplier with faulty tag attached
- Notify the supplier about the leak

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