

PRODUCT TECHNICAL SHEET CARBON DIOXIDE (CO₂)

DATE: April 2023

Version: 1

Ref. No.: PSM93




Carbon Dioxide is non-toxic, colourless, odourless and tasteless. Carbon Dioxide is supplied as a high pressure liquefiable gas in metal cylinders.

Gas Specification	
Purity	≥99.9%
H ₂ O (Humidity)	≤ 67 ppm
CO	≤ 5 ppm

Physical Data	
Specific Volume @20°C	547ml/g
Molecular Weight	44.011
Critical temperature	31°C
Relative Density (air= 1) at 101,325 kPa	1.53

Hazards
An asphyxiant
High pressure liquefiable gas
Sudden expansion will produce low temperatures
All cylinders are portable gas containers and must be regarded as pressure vessels at all times



Transport/ Storage Information	
	
UN No 1013	Class 2.2
Do not allow cylinders to slide or come into contact with sharp edges	
CO ₂ cylinders must be stacked vertically at all times, and should be firmly secured in order to prevent them from being knocked over	
First in - First out inventory system	

Uses and Features
To increase the depth of anaesthesia rapidly when volatile agents are being administered. It increases depth of respiration and helps to overcome breath-holding and bronchial spasm
To facilitate blind intubation in anaesthetic practice
To facilitate vasodilation, and thus lessen the degree of metabolic acidosis during induction of hypothermia
To increase the cerebral blood flow in arteriosclerotic patients undergoing surgery
To stimulate respiration after a period of apnoea

Cylinder Information				
Colour Coding	Cylinder Capacity	Cylinder Dimension		Valve Outlet Connection
	KG	Height (mm)	Diameter (mm)	
Green	2	520	100	0.860" x 14TPI Right Hand Male
	14	1130	160	
	30	1440	230	

Nb: Other cylinders capacity and dimension also are available - Dimensions are given as an indication and can differ

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