

PRODUCT TECHNICAL SHEET

CARBON DIOXIDE (CO₂)

DATE: March 2024

Version: 2


Ref. No.: PS093



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%

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

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	

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	

Uses and Features	
Shielding gas for steel sections and plate. Used primarily for short arc welding of mild steels with all diameters of solid steel MIG wire and flux cored gas shielded wires	
inert atmosphere for many industrial applications, e.g. prevention of oxidation, conveying flammable materials	
Some applications for compressed CO ₂ include beer dispensing, post-mix soft drink dispensing, shielded arc welding, sparging, foundry sand mould curing, firefighting (fire extinguishers), gas atmosphere for preservation of packaged foods, animal immobilisation.	



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

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