

## PRODUCT TECHNICAL SHEET MEDICAL OXYGEN (MED. O<sub>2</sub>)

DATE: April 2023

Version: 1



Ref. No.: PSM27



Oxygen is a colourless, odourless and tasteless gas. It is supplied in high pressure steel cylinders. Oxygen as a gas is slightly heavier than air. Oxygen vigorously supports combustion of many materials which will not normally burn in air. Oxygen will also remain for considerable period in clothing.

Gas Specification	
Purity	≥99.5%
H <sub>2</sub> O (Humidity)	≤ 67 ppm
Carbon dioxide	≤ 300ppm
Carbon Monoxide	≤ 5ppm

Physical Data	
Specific Volume @20°C	775.4 l/kg
Molecular Weight	32.0

Transport/ Storage Information	
 UN No 1072	 Class 2.2
Do not allow cylinders to slide or come into contact with sharp edges	
Cylinders of Oxygen should not be stored near cylinders of acetylene or other combustible gases.	
First in - First out inventory system	

Hazards	
Vigorously supports combustion	
All cylinders are portable gas containers and must be regarded as pressure vessels at all times	
Never Permit oil, grease or other readily combustible	

Uses and Features	
Widely use for virtually all modern anaesthetics as well as pre- and post operative management.	
Oxygen provide life support by restoring tissue oxygen levels	
Plays vital role in management of sudden cardiac and respiratory arrest	
Oxygen can be use in neo-natal resuscitation	



Cylinder Information						
Colour Coding	Cylinder Capacity		Pressure @ 20°C (Bar)	Cylinder Dimension		Valve Outlet Connection
	M <sup>3</sup>	CUFT		Height (mm)	Diameter (mm)	
Black Body with a White shoulder	0.42	15	140	520	100	5/8" BSPF right hand female
	0.68	24	140	850	100	
	1.02	36	200	600	150	
	1.36	48	140	950	140	
	3.23	114	140	1130	160	
	3.4	120	140	1300	180	
	4.25	150	200	900	210	
	8.5	300	200	1560	200	

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