

Medical Oxygen (O₂)



Oxygen plays vital role for medical needs

A colourless, odourless and tasteless gas

For small and medium sized needs

Applications:

- ◆ Respiratory treatment
- ◆ Hyper pyrexia
- ◆ Surgical
- ◆ Trauma



Color Coding: Black Body with a white shoulder.

Purity: ≥99.5%

Hazard:



UN Nb:1072

LGI technical Capabilities:

- ◆ Experience since 1952
- ◆ Environmental safe processes
- ◆ Main Partners: Afrox, Amico,...
- ◆ As per South African standard
- ◆ Delivery 24 / 7
- ◆ Fleet of special delivery trucks (4 delivery vehicles)
- ◆ Management of customers' stock and availability at all times
- ◆ Quick service via specific delivery equipment – Tail lift



Product information

Cylinder Capacity		Cylinder Pressure @	Cylinder Height (mm)	Cylinder Diameter (mm)	Connection with Valve
M ³	CUFT	20°C (Bar)			
0.42	15	140	520	100	5/8" BSPF
0.68	24	140	850	100	right hand
1.02	36	200	600	150	female
3.23	114	140	1130	160	
8.49	300	200	1560	200	

Chemical Properties

Molecular Weight	Specific Volume @ 20°C & 101.325 Kpa
• 32g/mol	• 755ml/g

Hazards

- All cylinders are portable gas containers, and must be regarded as pressure vessels at all times
- Oxygen is non-flammable, but readily supports combustion
- Never permit oil, grease or other readily combustible substance to come into contact with high concentrations of Oxygen

Use 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

Handling and Storage

- Do not allow cylinders to slide or come into contact with sharp edges
- Cylinders of Oxygen should not be stored near combustible gases cylinders
- Oxygen cylinders may be stacked horizontally provided that they are firmly secured at each end to prevent rolling
- Prevent dirt, grit of any sort, oil or any other lubricant from entering the cylinder valves, and store cylinders well clear of any corrosive influence, e.g. battery acid
- Use a "first in - first out" inventory system to prevent full cylinders from being stored for excessive periods of time
- Keep out of reach of children
- Always use oxygen compatible O-rings