

# Helium UHP (He)



- Colourless
- Odourless
- Inert gas
- Non-flammable

## Applications:

Pressurisation gas, arc welding, laboratory analysis...

**Color Coding:** Mid Brown body

**Purity:**  $\geq 99.9995\%$

**Hazards :**



**UN Nb:** 1046

## LGI technical Capabilities:

- ◆ Experience since 1952
- ◆ Environmental safe processes
- ◆ Main Partners: Afrox, Linde....
- ◆ As per South African standard
- ◆ Fleet of special delivery trucks (4 delivery vehicles)
- ◆ Management of customers' stock and availability at all times
- ◆ Cylinder test workshop (testing , cleaning, quality check ,painting)



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## Product information

Cylinder Capacity		Cylinder Pressure @ 20°C (Bar)	Cylinder Height (mm)	Cylinder Diameter (mm)	Connection with Valve
M <sup>3</sup>	CUFT				
6.51	230	150	1440	230	5/8" BSPF Right Hand Female

## Chemical Properties

Molecular Weight	Specific Volume @ 20°C & 101.325 Kpa
4.00g/mol	6024m3 kg

## Hazards

- All cylinders are portable gas containers, and must be regarded as pressure vessels at all times
- Helium does not support life
- It can act as a simple asphyxiant by diluting the concentration of oxygen in air below the levels necessary to support life

## Uses and Features

- Helium is used as a pressurisation gas for cryogenic rocket propellant in space, heavy water in nuclear reactors, for all liquids at room or low temperatures
- Helium is also used in the welding industry as an inert shielding gas for arc welding and as a helium (leak) detector to test the integrity of fabricated components and systems
- As a combined cooling and shielding medium for the pulling of optical fibres
- It is used in mixture with neon and argon for filling electronic tubes such as the familiar neon sign
- As a calibration gas and a balance gas in calibration mixtures. It is used as a purge gas and a zero (span) gas for analytical instruments

## Handling and Storage

- Do not allow cylinders to slide or come into contact with sharp edges
- Helium cylinders may be stacked horizontally provided that they are firmly secured at each end to prevent rolling
- 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