

PRODUCT TECHNICAL SHEET

UHP HELIUM (UHP He)

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Version: 1

Ref. No.: PSU55



Helium is a colourless, odourless non-reactive gas. The primary source of helium is from natural gas wells. It is obtained by a liquefaction and stripping operation.

Gas Specification

Purity	≥99.999%
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Physical Data

Specific Volume @20°C	6 024m ³ /kg
Molecular Weight	4.0
Boiling point at 101,325 kPa	-289°C
Density at 1,013 bar, 20°C	0.166 kg/m ³

Transport/ Storage Information



UN No 1046

Class 2.1

Do not allow cylinders to slide or come into contact with sharp edges

Do not store hydrogen cylinder with oxygen or other oxidant cylinders

May be stacked horizontally provided that they are firmly secured at each end to prevent rolling

First in - First out inventory system

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

Cylinder Information

Colour Coding	Cylinder Capacity		Pressure @ 20°C (Bar)	Cylinder Dimension		Valve Outlet Connection
	M ³	CUFT		Height (mm)	Diameter (mm)	
Mid Brown Body	6.51	230	150	1440	230	5/8" BSPF Right hand female

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

Les Gaz Industriels Limited

P.O Box 673, Bell Village, Pailles Road, GRNW, Republic of Mauritius

T (+230) 212 8306, F (+230) 212 0235

E contactus@gaz-industriels.com | www.gaz-industriels.com

BRN : C07000817

Registered Office : 18, Edith Cavell Street, Port-Louis, Mauritius

