

PRODUCT TECHNICAL SHEET

NITROGEN TECHNICAL (N₂)

DATE: April 2023

Version: 1

Ref. No.: PST95




Nitrogen is a colourless, odourless tasteless, non-toxic, almost inert gas. It comprises of 79% by volume of air. It is non-flammable and will not support combustion.

Gas Specification	
Purity	≥99.5%

Physical Data	
Specific Volume @20°C	862 ml/g
Molecular Weight	28
Boiling point at 101,325 kPa	-195.8°C
Relative Density (air= 1) at 101,325 kPa	0.967

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

Transport/ Storage Information	
 UN No 1066 Class 2.2	
Do not allow cylinders to slide or come into contact with sharp edges	
Nitrogen cylinders may be stacked horizontally provided that they are firmly secured at each end to prevent rolling	
First in - First out inventory system	

Uses and Features
Flow testing, gauge calibration, plastic forming, aerosol propellant, powering air tools, mechanical agitation in photo processing, metal de-gassing, pipeline testing, pressure testing cables and the handling and transfer of flammable liquids
To prevent the undesirable presence of oxygen, nitrogen is valuable in furnaces, metal plating and tinning, chemical processing, food packing, wine making, paint and varnish manufacture, tube manufacture, packaging and preserving rubber products and optics
Nitrogen is also used for the inert packaging of foods, sparging wines, pressurisation of head spaces in liquid containers and conveyance of beverages in pressurised pipe systems



Cylinder Information						
Colour Coding	Cylinder Capacity		Pressure @ 20°C (Bar)	Cylinder Dimension		Valve Outlet Connection
	M ³	CUFT		Height (mm)	Diameter (mm)	
Grey with black shoulder	2.83	100	140	1200	200	5/8" BSPF right hand female
	6.37	225	140	1390	180	
	7.93	280	172/200	1440	230	
	9.49	335	200	1440	230	

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

