

## PRODUCT TECHNICAL SHEET NITROGEN TECHNICAL (N2)

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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 @	Cylinder Dimension		Valve Outlet		
	M³	CUFT	20°C (Bar)	Height (mm)	Diameter (mm)	Connection		
Grey with black shoulder	2.83	100	140	1200	200	3/4" BSP 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

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