

Technical Nitrogen (N₂)



- Colourless
- Odourless
- Inert gas
- Non-flammable

Applications:

Cleaning, testing of pipes, artificial insemination, tissue preservation, food preservation

Color Coding: Grey with black shoulder

Purity: ≥99.5%

Hazards :



UN Nb: 1066

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
2.83	140	1200	200	
6.37	140	1390	180	3/4" BS'PF Right Hand Female
7.93	172 / 200	1440	230	
9.49	200	1440	230	

* Other capacities are available on request

Chemical Properties

Molecular Weight	Specific Volume @ 20°C & 101.325 Kpa
28.00g/mol	862ml/g

Hazards

- Nitrogen 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

- 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
- Carrier gas in chromatography, calibration gas and scientific research

Handling and Storage

- 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
- 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