



# Nitrogen

Gas code	SG032
Gas composition	99.9% Nitrogen
Cylinder identification	Cylinder colour (to AS 4484): Pewter body, shoulder and neck

## Description

- ▶ Odourless and colourless
- ▶ Non-toxic
- ▶ Does not support combustion
- ▶ An asphyxiant (does not support life)
- ▶ Does not react with oxygen at low temperatures
- ▶ Inert, dry and slightly soluble
- ▶ Inert to nearly all substances at ambient temperatures and moderate conditions
- ▶ Nitrogen keeps laser cut faces oxide-free, due to the chemical inertness, to react with the atmosphere



## Used for

- ▶ Used for blanketing and purging applications to displace or dilute all unwanted gas or vapour
- ▶ Widely used for reasons of safety and the prevention of product degradation in the chemicals and petroleum industry
- ▶ Inerting reactors and storage tanks
- ▶ Purging vessels and pipelines
- ▶ Sparging
- ▶ Pressure transfer of liquids
- ▶ Shielding or assist gas for plasma cutting aluminium and stainless steel, and as an assist gas for laser cutting
- ▶ Tyre inflation: helps to extend tyre life and prevent tyre bursts

Cylinder size	Cylinder content (sm <sup>3</sup> )	Gauge Pressure (1KPA @ 15°C)	Outlet Connection
G2	9.1	20,000	AS 2473 Type 50
E2	3.6	20,000	AS 2473 Type 50

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