

Nitrogen. (N₂)

Inert, dry and dependable — industrial and high-purity grades.

When the job is to keep oxygen, moisture and reactions out, nitrogen is the answer. KIGL supplies dry, oxygen-lean nitrogen for blanketing, purging and processing — filled and verified at our PESO-approved Noonmati facility and delivered with the dependability the North East has counted on for seventy-five years.

99.9%

High-purity grade available

Inert

Non-flammable, non-corrosive

Dry

Low dew point, process-safe

75 yrs

Manufacturing excellence, serving North East India

GRADES

PARAMETER	NITROGEN INDUSTRIAL	NITROGEN HIGH PURITY
Purity (N ₂ , v/v)	≥ 99.5%	≥ 99.9%
Oxygen	≤ 5000 ppm	≤ 1000 ppm
Moisture	Dew-point controlled	Dew-point controlled
Reference standard	IS 1747	KIGL specification

Values verified per filling batch; Certificate of Conformity on request. Higher purities and calibration mixtures available — ask our team.

The quiet workhorse.

Nitrogen does its best work unseen: a blanket over a solvent tank, a purge ahead of hot work, an atmosphere that keeps food fresh and welds bright. Because the gas touches your product or process directly, dryness and low oxygen content matter — KIGL controls both, batch after batch.

PHYSICAL PROPERTIES

PROPERTY	VALUE
Molecular weight	28.01
State of product in cylinder	Compressed gas
Boiling point at 1 atm (°C)	−195.8
Liquid density at boiling point (g/ml)	0.808
Gas density at 20 °C, 1 atm (kg/m ³)	1.16

PROPERTY	VALUE
Relative density (air = 1)	0.97
Critical temperature (°C)	−146.9
Appearance / odour	Colourless, odourless
Flammability	Non-flammable, inert
Main hazard	Asphyxiant in confined spaces

USES & APPLICATIONS

If a process must stay free of oxygen, moisture or reaction, nitrogen is on the job:

BLANKETING & INERTING

- Reactor and vessel inerting in chemical and pharma plants
- Pipeline purging, drying and pigging
- Fuel and solvent tank blanketing
- Modified-atmosphere food packaging

PROCESSING & MANUFACTURING

- Heat-treatment and annealing atmospheres
- Laser-cutting assist gas
- Electronics soldering and reflow
- Tyre inflation and pneumatic pressure testing

Recommended control equipment available from KIGL: nitrogen pressure regulators, changeover manifolds and purging accessories.

SAFE HANDLING

- **Nitrogen is an asphyxiant** — it displaces oxygen without any warning smell. Ensure good ventilation at all times.
- **Never enter a confined space** that may contain nitrogen without testing the atmosphere and following entry procedures.
- Handle high-pressure cylinders with care: secure upright, valve caps on when not in use, move with a trolley.
- Use regulators rated for the cylinder pressure; never tamper with safety devices.
- Store in a ventilated area; leak-test connections with soap solution.

Let's talk gas.

ENQUIRIES · ORDERS · EQUIPMENT

The Kamrup Industrial Gases Limited
Maniram Dewan Road, Noonmati, Guwahati 781026, Assam
guwahati@kigl.co.in · kigl.co.in

Also: Oxygen · Medical Oxygen · Argon · CO₂ · Acetylene · Mixtures