

Medical Oxygen. (O₂)

Indian Pharmacopoeia grade — batch-tested, drug-licensed, always on call.

Medical oxygen is a medicine, and KIGL treats it like one. Every batch is filled under our drug licence, tested against the Indian Pharmacopoeia monograph, and documented for full traceability — from our Noonmati facility to the hospital bedside, with the reliability the North East has trusted for seventy-five years.

99.0%

Minimum purity, IP grade

IP

Tested to the Indian
Pharmacopoeia

Batch

Release records and CoA per
lot

24×7

Emergency hospital supply

SPECIFICATION

PARAMETER	SPECIFICATION
Purity (O ₂ , v/v)	≥ 99.0%
Carbon dioxide	≤ 300 ppm
Carbon monoxide	≤ 5 ppm
Moisture	Dry; dew-point controlled
Reference standard	Indian Pharmacopoeia (current edition)
Regulatory	Filled under valid drug licence; batch records maintained

Certificate of Analysis supplied with every batch on request. Cylinders dedicated to medical service, with oxygen-clean valves, PESO/CCOE approval and periodic testing per the Gas Cylinder Rules, 2016.

Medicine, not just gas.

Medical oxygen carries clinical responsibility: pharmacopoeial purity limits, carbon monoxide and carbon dioxide controls, batch traceability and clean, dedicated cylinders. KIGL maintains all of it as standard — so hospitals, nursing homes and ambulance services can put their attention on the patient, not the supply.

PHYSICAL PROPERTIES

PROPERTY	VALUE	PROPERTY	VALUE
Molecular weight	32.00	Relative density (air = 1)	1.11
State of product in cylinder	Compressed gas	Critical temperature (°C)	-118.6
Boiling point at 1 atm (°C)	-183.0	Appearance / odour	Colourless, odourless
Liquid density at boiling point (g/ml)	1.141	Flammability	Non-flammable; strong oxidiser
Gas density at 20 °C, 1 atm (kg/m ³)	1.33	Main hazard	Vigorously accelerates combustion

USES & APPLICATIONS

Wherever a patient needs oxygen, the supply has to be certain. KIGL Medical Oxygen serves:

HOSPITAL & CLINICAL

- Medical gas pipeline systems (MGPS) and manifold rooms
- Anaesthesia and operating theatres
- ICU ventilators and resuscitation
- Ward-level oxygen therapy

EMERGENCY & OUTREACH

- Ambulance and patient-transport oxygen
- Home-care and palliative therapy
- Field hospitals and disaster response
- Nursing-home and veterinary care

KIGL also supplies medical oxygen regulators with flowmeters, humidifier bottles, key spanners and manifold systems for hospital installations.

SAFE HANDLING

- **Use only under medical direction**, with equipment intended for medical oxygen.
- **Keep oil and grease away from all oxygen equipment** — hydrocarbons can ignite spontaneously in oxygen.
- No smoking or naked flames near oxygen in use; enriched atmospheres make materials burn fiercely.
- Open valves slowly; secure cylinders upright in stands or trolleys at all times.
- Store medical cylinders separately from industrial ones, in a clean, ventilated area; leak-test with oxygen-compatible solution.

Let's talk gas.

ENQUIRIES · ORDERS · EQUIPMENT

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Also: Industrial Oxygen · Nitrogen · Argon · CO₂ · Acetylene · Mixtures