

Industrial Oxygen. (O₂)

≥ 99.5% pure — IS 309 compliant, filled and tested in Guwahati.

From the cutting torch to the furnace, oxygen sets the pace of fabrication. KIGL Industrial Oxygen delivers consistent ≥ 99.5% purity in every cylinder — dry, dependable and filled at our PESO-approved Noonmati facility, backed by seventy-five years of supplying the North East with gases it can count on.

99.5%

Minimum purity, every cylinder

IS 309

Conforms to the Indian Standard

Dry

Moisture-controlled, dew-point tested

75 yrs

Manufacturing excellence, serving North East India

SPECIFICATION

PARAMETER	SPECIFICATION
Purity (O ₂ , v/v)	≥ 99.5%
Odour	None
Moisture	Dew-point controlled; no free water
Reference standard	IS 309
Verification	Every filling batch

Certificate of Conformity available on request. All cylinders PESO/CCOE approved, periodically tested as per the Gas Cylinder Rules, 2016.

Cut faster, finish cleaner.

Cutting speed and edge quality track oxygen purity: a consistent 99.5%+ supply means hotter, tighter flames, less dross and fewer second passes. KIGL's dedicated oxygen fleet, oxygen-clean valves and batch verification keep that consistency cylinder after cylinder, delivery after delivery.

PHYSICAL PROPERTIES

PROPERTY	VALUE
Molecular weight	32.00
State of product in cylinder	Compressed gas
Boiling point at 1 atm (°C)	−183.0
Liquid density at boiling point (g/ml)	1.141
Gas density at 20 °C, 1 atm (kg/m ³)	1.33

PROPERTY	VALUE
Relative density (air = 1)	1.11
Critical temperature (°C)	−118.6
Appearance / odour	Colourless, odourless
Flammability	Non-flammable; strong oxidiser
Main hazard	Vigorously accelerates combustion

USES & APPLICATIONS

Oxygen turns fuel gas into a precision tool and a furnace into a faster one. KIGL supplies it for:

CUTTING & WELDING

- Oxy-fuel profile cutting of plates and sections
- Oxy-acetylene welding and brazing
- Scarfing, gouging and flame cleaning
- Flame heating and straightening

PROCESS INDUSTRIES

- Combustion enrichment in furnaces and kilns
- Steelmaking and metal lancing
- Glass, ceramic and jewellery working
- Effluent treatment and aquaculture aeration

Recommended control equipment available from KIGL: oxygen pressure regulators, flashback arrestors for oxy-fuel work, cutting and welding torches, and changeover manifolds.

SAFE HANDLING

- **Keep oil and grease away from all oxygen equipment** — hydrocarbons can ignite spontaneously in oxygen.
- **Open cylinder valves slowly**, and never use oxygen as a substitute for compressed air.
- Oxygen is a powerful oxidiser: enriched atmospheres make materials burn fiercely. Ensure ventilation; never use it to “freshen” air.
- Use only regulators and fittings cleaned and rated for oxygen service; secure cylinders upright.
- Store away from fuel gases, heat and ignition sources. Leak-test with oxygen-compatible solution, never a flame.

Let's talk gas.

ENQUIRIES · ORDERS · EQUIPMENT

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