

Pharmaceutical Gas Standards

(Nitrogen N2, Carbon Dioxide CO2, Oxygen O2)

YIGAS INTERNATIONAL LIMITED

1. Overview

Pharmaceutical-grade gases play vital roles in drug manufacturing, packaging, and cryogenic storage. YIGAS provides high-purity N2, CO2, and O2 fully compliant with GMP and pharmacopeia standards for sterile and validated production processes.

2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
N2	≥99.999%	Liquid / Gas	-196 °C	5—200 bar
CO2	≥99.9%	Liquid / Gas	-78.5 °C	10—60 bar
O2	≥99.5%	Gas	-183 °C	10—200 bar

3. Industrial Standards

All gases comply with:

- EIGA Doc 30/18 – Validation of medical and pharma gases
- ISO 7396-1 – Medical gas systems
- GMP Annex 6 – Pharmaceutical gases
- Ph.Eur / USP – Purity and traceability

4. Applications

- N2: Inerting, sterile packaging, lyophilization
- CO2: Tablet coating and pH control
- O2: Fermentation and cell culture

5. Packaging & Supply

Cylinder • Manifold • Bulk Tank • On-site Generator

6. Contact Information

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This document provides reference specifications for YIGAS pharmaceutical gases. Customized supply and technical support are available upon request.