

# Chemical Process Gas Standards

(Oxygen O<sub>2</sub>, Hydrogen H<sub>2</sub>, Carbon Dioxide CO<sub>2</sub>)

**YIGAS INTERNATIONAL LIMITED**

## 1. Overview

Process gases play a fundamental role in chemical synthesis, oxidation, and reduction reactions. YIGAS provides O<sub>2</sub>, H<sub>2</sub>, and CO<sub>2</sub> with consistent purity and stable supply.

## 2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
O <sub>2</sub>	≥99.5%	Gas	-183 °C	10–200 bar
H <sub>2</sub>	≥99.999%	Gas	-253 °C	10–200 bar
CO <sub>2</sub>	≥99.9%	Liquid / Gas	-78.5 °C	10–60 bar

## 3. Industrial Standards

All gases comply with:

- ISO 20421 – Gas systems in chemical processes
- EIGA Doc 110/18 – Safe use of O<sub>2</sub> and CO<sub>2</sub>
- GB/T 3864–2020 – Labeling and safety codes

## 4. Applications

- O<sub>2</sub>: Oxidation reactions
- H<sub>2</sub>: Hydrogenation and desulfurization
- CO<sub>2</sub>: Neutralization and pH control

## 5. Packaging & Supply

Cylinder • Tube Skid • ISO Tank • On-site System

## 6. Contact Information

[www.yigasgroup.com](http://www.yigasgroup.com)

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