

Chemical Process Gas Standards

(Oxygen O2, Hydrogen H2, Carbon Dioxide CO2)

YIGAS INTERNATIONAL LIMITED

1. Overview

Process gases play a fundamental role in chemical synthesis, oxidation, and reduction reactions. YIGAS provides O2, H2, and CO2 with consistent purity and stable supply.

2. Technical Specifications

| Gas | Purity Level | Typical Phase | Temperature Range | Common Pressure |
|-----|--------------|---------------|-------------------|-----------------|
| O2 | ≥99.5% | Gas | -183 °C | 10—200 bar |
| H2 | ≥99.999% | Gas | -253 °C | 10—200 bar |
| CO2 | ≥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 O2 and CO2
- GB/T 3864–2020 – Labeling and safety codes

4. Applications

- O2: Oxidation reactions
- H2: Hydrogenation and desulfurization
- CO2: Neutralization and pH control

5. Packaging & Supply

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

6. Contact Information

www.yigasgroup.com

Address: Guangdong, China

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