

Catalyst Regeneration & Hydrogenation Gas Standards

(Hydrogen H₂, Carbon Monoxide CO, Methane CH₄)

YIGAS INTERNATIONAL LIMITED

1. Overview

Catalyst regeneration and hydrogenation processes rely on high-purity reducing gases. YIGAS offers reliable supplies of H₂, CO, and CH₄ for chemical, petrochemical, and refining applications.

2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
H ₂	≥99.999%	Gas	-253 °C	10—200 bar
CO	≥99.5%	Gas	-192 °C	5—200 bar
CH ₄	≥99.5%	Gas	-161 °C	10—200 bar

3. Industrial Standards

All gases comply with:

- ISO 14687 – Hydrogen fuel quality
- API 941 – Catalyst protection and metallurgy
- EIGA Doc 121/19 – CO safety in process plants
- GB/T 3864–2020 – Gas classification

4. Applications

- H₂: Hydrogenation of oils, refinery hydroprocessing
- CO: Catalyst regeneration, carbonylation
- CH₄: Reforming and synthesis gas generation

5. Packaging & Supply

Cylinder • Tube Skid • On-site Pipeline

6. Contact Information

www.yigasgroup.com

Address: Guangdong, China

© 2025 YIGAS INTERNATIONAL LIMITED – Industrial & Specialty Gas Solutions

This document provides reference specifications for YIGAS catalyst regeneration & hydrogenation gases. Customized supply and technical support are available upon request.