

Enhanced Oil Recovery Gas Standards

(Carbon Dioxide CO₂, Nitrogen N₂, Methane CH₄)

YIGAS INTERNATIONAL LIMITED

1. Overview

Enhanced Oil Recovery (EOR) utilizes gases to improve reservoir pressure and hydrocarbon displacement efficiency. YIGAS provides CO₂, N₂, and CH₄ with stable supply for onshore and offshore oilfield applications.

2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
CO ₂	≥99.9%	Liquid / Gas	-78.5 °C	10—60 bar
N ₂	≥99.999%	Liquid / Gas	-196 °C	5—200 bar
CH ₄	≥99.5%	Gas	-161 °C	10—200 bar

3. Industrial Standards

All gases comply with:

- API RP 941 – EOR gas pipeline integrity
- ISO 23251 – Gas compression and transport
- EIGA Doc 80/18 – CO₂ safety in oil recovery
- GB/T 3864–2020 – Gas identification and labeling

4. Applications

- CO₂: Miscible flooding for heavy oil recovery
- N₂: Pressure maintenance in reservoirs
- CH₄: Gas injection and energy recovery

5. Packaging & Supply

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

6. Contact Information

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