

Biomass Energy Gas Solutions

(Oxygen O2, Nitrogen N2, Carbon Dioxide CO2, Hydrogen H2, Methane CH4)

YIGAS INTERNATIONAL LIMITED

1. Overview

Biomass energy production relies on process gases for gasification, combustion, and upgrading. YIGAS supplies O2, N2, CO2, H2, and CH4 for sustainable energy projects.

2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
O2	≥99.9%	Liquid / Gas	-183 °C	5—200 bar
N2	≥99.999%	Gas	-196 °C	5—200 bar
CO2	≥99.9%	Liquid / Gas	-78.5 °C	10—60 bar
H2	≥99.999%	Gas	-253 °C	10—300 bar
CH4	≥99.5%	Gas	-161 °C	10—200 bar

3. Industrial Standards

- All gases comply with:
- ISO 23251 – Gas processing and safety
 - EN 16723 – Biomethane quality
 - GB/T 3864–2020 – Gas labeling

4. Applications

- O2: Biomass combustion enhancement
- N2: Inerting and safety purging
- CO2: Biogas upgrading
- H2 & CH4: Renewable fuel synthesis

5. Packaging & Supply

Cylinder • ISO Tank • Tube Skid • On-site Gas Supply

6. Contact Information

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