Semiconductor Gas Standards

(Helium He, Nitrogen N_2, Hydrogen H_2)

YIGAS INTERNATIONAL LIMITED

1. Overview

Semiconductor-grade gases play a critical role in wafer fabrication, etching, and cooling. YIGAS provides ultra-high-purity He, N_2, and H_2 gases with semiconductor compliance standards.

2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
He	≥99.999%	Gas	-269 °C	5—200 bar
N_2	≥99.999%	Gas	-196 °C	5—200 bar
H_2	≥99.999%	Gas	-253 °C	10—200 bar

3. Industrial Standards

All gases comply with:
- ISO 14687 – Hydrogen fuel and purity
- SEMI C3 – Gases for semiconductor processing
- EIGA 70/17 – Gas purity for microelectronics
- GB/T 8982–2020 – Purity testing standards

4. Applications

- He: Wafer cooling, leak detection, lithography systems
- N_2: Purging and cleanroom environment control
- H_2: Reducing agent in epitaxial processes

5. Packaging & Supply

Cylinder • Bundle • Liquid Dewar • Bulk Supply

6. Contact Information

www.yigasgroup.com
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This document provides reference specifications for YIGAS semiconductor gases. Customized supply and technical support are available upon request.