

Analytical Laboratory Gas Specifications

(Helium He, Nitrogen N2, Hydrogen H2, Argon Ar)

YIGAS INTERNATIONAL LIMITED

1. Overview

Analytical laboratory gases ensure accuracy and stability in chromatography, spectroscopy, and chemical analysis. YIGAS provides high-purity He, N2, H2, and Ar for laboratory-grade operations.

2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
He	≥99.999%	Gas	-269 °C	5—200 bar
N2	≥99.999%	Gas	-196 °C	5—200 bar
H2	≥99.999%	Gas	-253 °C	10—300 bar
Ar	≥99.999%	Gas	-186 °C	5—200 bar

3. Industrial Standards

All gases comply with:

- ISO 14175 – Laboratory gas quality
- ASTM D5287 – Analytical gas testing
- EIGA Doc 30/19 – Purity control guidelines
- GB/T 8982–2020 – Analytical gas standards

4. Applications

- He: GC carrier gas
- N2: Instrument purge and blanketing
- H2: GC fuel gas
- Ar: ICP and spectroscopy shielding gas

5. Packaging & Supply

Cylinder • Manifold System • On-site Generator

6. Contact Information

www.yigasgroup.com

Address: Guangdong, China

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*This document provides reference specifications for YIGAS analytical laboratory gases.
Customized supply and technical support are available upon request.*