

Cryogenic Cooling Gas Standards

(Nitrogen N2, Carbon Dioxide CO2, Helium He)

YIGAS INTERNATIONAL LIMITED

1. Overview

Cryogenic cooling gases are essential in food freezing, pharmaceutical cold chains, and precision material processing. YIGAS provides liquid nitrogen (N2), carbon dioxide (CO2), and helium (He) with stable purity and reliable delivery for efficient, low-temperature operations.

2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
N2	≥99.999%	Liquid / Gas	-196 °C	5—200 bar
CO2	≥99.9%	Liquid / Solid (Dry Ice)	-78.5 °C	10—60 bar
He	≥99.999%	Gas / Liquid	-269 °C	5—200 bar

3. Industrial Standards

All gases comply with:

- ISO 14175 – Industrial gases for welding and processing
- EIGA Doc 123/19 – Cryogenic liquid safety standards
- GB/T 8982 2020 – Purity and analytical testing
- DOT/TPED – Cylinder and storage compliance

4. Applications

- N2: Food quick-freezing, biopharma cold storage, cryogenic testing
- CO2: Dry ice cooling, transport refrigeration, packaging
- He: Superconducting equipment, cryogenic maintenance, precision cooling

5. Packaging & Supply

Cylinder • Dewar Tank • Liquid Bulk • On-site System

6. Contact Information

www.yigasgroup.com

Address: Guangdong, China

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