

PURE GASES

HELIUM He

General Characteristics: A colorless and flammable gas.

Health Hazards: A simple asphyxiant.

| GAS GRADE/PURITY SPEC. | CYLINDER SIZE | CONTENTS | EQUIPMENT RECOMMENDATIONS |
|---|-----------------|---------------------|--|
| ULTRA HIGH PURITY Min. Purity 99.999% H ₂ O < 3 ppm, O ₂ < 5 ppm | 049 | 8.0 m ³ | Double-stage high purity regulator, refer to page 134 High purity lecture bottle regulator, refer to page 146 |
| | 044 | 6.0 m ³ | |
| | 016 | 2.0 m ³ | |
| | 010 | 1.3 m ³ | |
| | LB | 57 L | |
| HIGH PURITY Min. Purity 99.995% H ₂ O < 10 ppm, O ₂ < 10 ppm | 049 | 8.0 m ³ | |
| | 044 | 6.0 m ³ | |
| | 016 | 2.0 m ³ | |
| | 010 | 1.3 m ³ | |
| INDUSTRIAL Min. Purity 99.95% H ₂ O < 100 ppm, O ₂ < 100 ppm | 049 | 8.0 m ³ | |
| | 044 | 6.0 m ³ | |
| | 016 | 2.0 m ³ | |
| | 010 | 1.3 m ³ | |
| EXTRA HIGH PRESSURE Min. Purity 99.999% H ₂ O < 3 ppm, O ₂ < 5 ppm | 6 K (6000 psig) | 14.5 m ³ | Piston regulator, refer to page 145 |

TECHNICAL INFORMATION

| | | | |
|-----------------------|-----------------------|-------------------|---|
| Molecular Weight..... | 4.003 | Dot Name..... | Helium, Compressed or refrigerated liquid |
| Specific Volume..... | 96.7CF/lb | UN No..... | UN1046 |
| Fire Potential..... | Non-flammable | Dot Class..... | 2.2 |
| TLV-TWA..... | None established | Dot Label..... | Non-flammable Gas |
| CGA Valve..... | 580, 3HP-677, 2HP-680 | Cas Registry..... | 7440-59-7 |
| LB..... | 180 | | |

For ULSI (6N) and VLSI (5N5) grades helium, see Electronic Gas section page 90.

HEXAFLUOROETHANE C₂F₆

- See Electronic Gas Section page 87 -