

PURE GASES

NITROGEN DIOXIDE NO₂

General Characteristics: A reddish brown, non-flammable and liquefied gas with a detectable odor.

Health Hazards: Highly toxic. Causes serious lung damage with a delayed effect.

| GAS GRADE/PURITY SPEC. | CYLINDER SIZE | CONTENTS | EQUIPMENT RECOMMENDATIONS |
|----------------------------------|------------------|----------|---|
| C.P. Min. Purity 99.5% | ¹ 044 | 54.5 kg | Stainless-steel high purity single-stage regulator, refer to page 142 |
| | ¹ 016 | 10.0 kg | |
| | 010 | 5.0 kg | Stainless-steel lecture bottle regulator, refer to page 147 |
| | LB | 227 g | |

TECHNICAL INFORMATION

| | | | |
|-----------------------|-------------------------|-------------------------------|--------------------------------|
| Molecular Weight..... | 46.01 | Dot Name..... | Dinitrogen Tetroxide Liquefied |
| Specific Volume..... | 4.7CF/lb | UN No..... | UN1067 |
| Fire Potential..... | Highly Oxidizing | Dot Class..... | 2.3 |
| TLV-TWA..... | 3 ppm (ACGIH 1991-1992) | Dot Label..... | Poison Gas and Oxidizer |
| CGA Valve..... | 660 | Cas Registry..... | 10102-44-0 |
| LB..... | 180 | Cylinder Pressure @ 70°F..... | 0 psig |

1. Available with full length eductor tube and pressurized with Nitrogen

NITROGEN TRIFLUORIDE NF₃

- See Electronic Gas Section page 98 -

NITROUS OXIDE N₂O

General Characteristics: A colorless, non-flammable, odorless and liquefied gas.

Health Hazards: A simple asphyxiant and an anesthetic, a mild oxidizer.

| GAS GRADE/PURITY SPEC. | CYLINDER SIZE | CONTENTS | EQUIPMENT RECOMMENDATIONS |
|---|---------------|----------|---|
| INSTRUMENTAL Min. Purity 99.6% NO/NO ₂ < 1 ppm, CO < 5 ppm, CO ₂ < 100 ppm, H ₂ O < 10 ppm | 044 | 27.2 kg | Double-stage high purity regulator, refer to page 134 |
| | 016 | 9.1 kg | High purity lecture bottle regulator, refer to page 146 |
| | LB | 227 g | |
| NOT FOR DRUG USE. Recommended for use with Atomic Absorbtion Spectrophotometers. | | | For high flow application, special laminated aluminum regulator required, please ask our representative |

TECHNICAL INFORMATION

| | | | |
|-----------------------|--------------------------|------------------------------|---------------------------|
| Molecular Weight..... | 44.01 | Dot Name..... | Nitrous Oxide, Compressed |
| Specific Volume..... | 8.7CF/lb | UN No..... | UN1070 |
| Fire Potential..... | Oxidizer | Dot Class..... | 2.2 |
| TLV-TWA..... | 50 ppm (ACGIH 1991-1992) | Dot Label..... | Non-flammable Gas |
| CGA Valve..... | 326 | Cas Registry..... | 10024-97-2 |
| LB..... | 180 | Cylinder Pressure @70°F..... | 745 psig |

For VLSI (5N5) and ELECTRONIC (5N) grade nitrous oxide, see Electronic Gas section page 99.

OCTAFLUOROCYCLOBUTANE C₄F₈

- See Electronic Gas Section page 89 -