

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 Absorption 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 -