

# PURE GASES

## NITRIC OXIDE NO

**General Characteristics:** A colorless, flammable gas with a slight odor.  
**Health Hazards:** Toxic. Odor is insufficient to provide adequate warning.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>C.P.</b> Min. Purity 99.0%	044	1.6 m <sup>3</sup>	Stainless-steel high purity double-stage regulator, refer to page 135
	016	550 L	
	010	340 L	Stainless-steel lecture bottle regulator, refer to page 147
	LB	14 L	

### TECHNICAL INFORMATION

Molecular Weight.....	30.006	Dot Name.....	Nitric Oxide
Specific Volume.....	13CF/lb	UN No.....	1660
Fire Potential.....	Non-flammable	Dot Class.....	2.3
TLV-TWA.....	25ppm (ACGIH 1991-1992)	Dot Label.....	Poison Gas
CGA Valve.....	660	Cas Registry.....	10102-43-9
LB.....	180	Cylinder Pressure @ 70°F.....	500 psig

## NITROGEN N<sub>2</sub>

**General Characteristics:** A colorless, non-flammable, odorless and compressed gas.  
**Health Hazards:** A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>ULTRA HIGH PURITY</b> Min. Purity 99.999% H <sub>2</sub> O < 3 ppm, O <sub>2</sub> < 5 ppm, CH <sub>4</sub> < 1 ppm	049	6.6 m <sup>3</sup>	Double-stage high purity regulator, refer to page 134
	044	6.0 m <sup>3</sup>	
	016	2.0 m <sup>3</sup>	High purity lecture bottle regulator, refer to page 146
		010	
<b>HIGH PURITY</b> Min. Purity 99.995% H <sub>2</sub> O < 10 ppm, O <sub>2</sub> < 10 ppm	049	6.6 m <sup>3</sup>	
	044	6.0 m <sup>3</sup>	
	016	2.0 m <sup>3</sup>	
	010	1.3 m <sup>3</sup>	
<b>INDUSTRIAL</b> Min. Purity 99.95% H <sub>2</sub> O < 50 ppm, O <sub>2</sub> < 50 ppm	049	6.6 m <sup>3</sup>	
	044	6.0 m <sup>3</sup>	
	016	2.0 m <sup>3</sup>	
	010	1.3 m <sup>3</sup>	
<b>EXTRA HIGH PRESSURE</b> Min. Purity 99.999% H <sub>2</sub> O < 3 ppm, O <sub>2</sub> < 5 ppm, CH <sub>4</sub> < 1 ppm	6 K (6000 psig)	14.5 m <sup>3</sup>	Piston regulator, refer to page 145

### TECHNICAL INFORMATION

Molecular Weight.....	28.01	Dot Name.....	Nitrogen
Specific Volume.....	13.8CF/lb	UN No.....	UN1066
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.....	7727-37-9
LB.....	180		

For ULSI (6N) and VLSI (5N5) grade nitrogen, see Electronic Gas section page 97.