

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
C.P. Min. Purity 99.0%	044	1.6 m ³	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 N₂

General Characteristics: A colorless, non-flammable, odorless and compressed 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, CH ₄ < 1 ppm	049	6.6 m ³	Double-stage high purity regulator, refer to page 134
	044	6.0 m ³	
	016	2.0 m ³	High purity lecture bottle regulator, refer to page 146
		010	
HIGH PURITY Min. Purity 99.995% H ₂ O < 10 ppm, O ₂ < 10 ppm	049	6.6 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 < 50 ppm, O ₂ < 50 ppm	049	6.6 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, CH ₄ < 1 ppm	6 K (6000 psig)	14.5 m ³	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.