

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. GRADE Min. Purity 99.0%	044	56 CF	Stainless-steel high purity double-stage regulator, refer to page 146 Stainless-steel lecture bottle regulator, refer to page 149
	016	20 CF	
	LB	0.5 CF	

TECHNICAL INFORMATION

Molecular Weight	30.006	Dot Name	Nitric Oxide
Specific Volume	13CF/lb	UN No.	UN1660
Fire Potential	Nonflammable	Dot Class	2.3
TLV-TWA	25 ppm (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, nonflammable, odorless, and compressed gas.
Health Hazards: A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
ULSI GRADE Min. Purity 99.9999%			- See Electronic Gases Section -
RESEARCH GRADE Min. Purity 99.9995% O ₂ < 0.5 ppm, H ₂ O < 2 ppm CO/CO ₂ < 0.1 ppm, THC < 0.1 ppm H ₂ < 0.1 ppm, Ar < 1 ppm	044	210 CF	Double-stage high purity regulator, refer to page 137 High purity lecture bottle regulator, refer to page 148
	016	78 CF	
	LB	2 CF	
ULTRA HIGH PURITY Min. Purity 99.999%	049	300 CF	
	044	210 CF	
	016	78 CF	
	008	37 CF	
ZERO GRADE Min. Purity 99.998% THC < 0.4 ppm	LB	2 CF	
	049	300 CF	
	044	210 CF	
	016	78 CF	
OXYGEN FREE Min. Purity 99.998% Certified oxygen content < 0.5 ppm	008	37 CF	
	044	210 CF	
	016	78 CF	
HIGH PURITY GRADE Min. Purity 99.995%	049	300 CF	
	044	257 CF	
	016	80 CF	
	008	37 CF	
HIGH PRESSURE Min. Purity 99.998%	LB	2 CF	Piston regulator, refer to page 147
	¹ 3 HP (6000 psig)	494 CF	
	² 2 HP (3500 psig)	338 CF	

TECHNICAL INFORMATION

Molecular Weight	28.01	Dot Name	Nitrogen
Specific Volume	13.8CF/lb	UN No.	UN1066
Fire Potential	Nonflammable	Dot Class	2.2
TLV-TWA	None established	Dot Label	Nonflammable Gas
CGA Valve	580, 3HP-677, 2HP-680	Cas Registry	7727-37-9
LB	180		

¹Size 3HP = 10"(o.d.) x 51" (h)

²Size 2HP = 9"(o.d.) x 50" (h)