

# PURE GASES

## OXYGEN O<sub>2</sub>

**General Characteristics:** A colorless, nonflammable, and odorless gas. Sustains combustion of many materials which normally cannot burn in air.

**Health Hazards:** Increases the combustion rate when compared to air.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>VLSI GRADE</b> Min. Purity 99.999%		<b>- See Electronic Gases Section -</b>	
<b>RESEARCH GRADE</b> Min. Purity 99.997% Ar < 10 ppm, N <sub>2</sub> < 5 ppm H <sub>2</sub> O < 2 ppm, CO <sub>2</sub> < 2 ppm	044	225 CF	Double-stage high purity regulator, refer to page 137 High purity lecture bottle regulator, refer to page 148
	016	84 CF	
	LB	2 CF	
<b>ULTRA HIGH PURITY</b> Min. Purity 99.99% Impurities < 100 ppm	049	338 CF	
	044	282 CF	
	016	84 CF	
<b>HIGH PURITY</b> Min. Purity 99.7% H <sub>2</sub> O < 5 ppm, CO <sub>2</sub> < 2 ppm CO < 1 ppm, Ar + N <sub>2</sub> < 0.3%	049	338 CF	
	044	282 CF	
	016	84 CF	
<b>MEDICAL GRADE</b> Min. Purity 99.9%	<sup>1</sup> M-E	24 CF	Medical oxygen regulator, please ask our representative.
	<sup>2</sup> M-D	15 CF	
	<sup>3</sup> M-9	8.4 CF	
	<sup>4</sup> M-6	6.3 CF	

### TECHNICAL INFORMATION

Molecular Weight .....	32.00	Dot Name .....	Oxygen
Specific Volume .....	12.1CF/lb	UN No. ....	UN1072
Fire Potential .....	Strong Oxidizer	Dot Class .....	2.2
TLV-TWA .....	None established	Dot Label .....	Oxidizer
CGA Valve .....	540	Cas Registry .....	7782-44-7
LB .....	180		

<sup>1</sup>Size M-E = 4.38" (o.d.) x 25.63" (h)

<sup>2</sup>Size M-D = 4.38" (o.d.) x 16.5" (h)

<sup>3</sup>Size M-9 = 4.38" (o.d.) x 10.88" (h)

<sup>4</sup>Size M-6 = 3.20" (o.d.) x 11.59" (h)

## PERFLUOROPROPANE C<sub>3</sub>F<sub>8</sub> (Octafluoropropane)

**General Characteristics:** A colorless, nonflammable, and liquefied gas.

**Health Hazards:** A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>C.P. GRADE</b> Min. Purity 99.0% (Liquid Phase)	016	11 lbs	Single-stage high purity regulator, refer to page 142 High purity lecture bottle regulator, refer to page 148
	008	5 lbs	
	LB	1 lb	

### TECHNICAL INFORMATION

\* Maxicyl is equipped with a CGA 165 outlet.

Molecular Weight .....	188.02	Dot Name .....	Octafluoropropane
Specific Volume .....	2.0CF/lb	UN No. ....	UN1956
Fire Potential .....	Nonflammable	Dot Class .....	2.2
TLV-TWA .....	None established	Dot Label .....	Nonflammable Gas
CGA Valve .....	660	Cas Registry .....	76-19-7
LB .....	180	Cylinder Pressure @ 70°F .....	100 psig