

# ELECTRONIC GASES

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

Oxygen is a colorless, odorless, highly oxidizing gas that sustains life and vigorously supports combustion.

Oxygen should not be permitted to contact oil, grease or other combustible materials. As such, all equipment used with Oxygen must be specially cleaned. It is shipped in steel cylinders under high pressure.

### Container Information

CYLINDER SIZE	CONTENTS	Pressure@21.1°C	2200 psig
	CU.FT.	Valve Outlet	CGA-540
044	244	DOT Shipping Description:	Oxygen, compressed, 2.2, UN 1072
		DOT Shipping Labels	Nonflammable Gas Oxidizer
		DOT Guide No.	12
		CAS Registry No.	7727-37-9

### Specifications

COMPONENT	VLSI
OXYGEN	99.999%min
Argon	< 5000 ppb
Carbon Dioxide	< 500 ppb
Carbon Monoxide	< 1000 ppb
Nitrogen	< 2000 ppb
THC (as Methane)	< 200 ppb
Water	< 1000 ppb
SHELF LIFE: 2 years	

### Physical Properties

Molecular Weight	32.00
Flammability Limits in air	Nonflammable
Specific Gravity, Gas @ 70°F(21.1°C), 1 atm(Air=1)	1.11
Density, Gas @ 70°F(21.1°C), 1 atm	0.0828lb/ft <sup>3</sup> (1.326g/l)
Specific Volume, Gas @ 70°F(21.1°C), 1 atm	12.08ft <sup>3</sup> /lb (0.754l/g)
Boiling Point @ 1 atm	-297.35°F (-182.97°C)
Melting Point @ 1 atm	-361.84°F (-118.57°C)
Critical Temperature	-181.1°F (-118.4°C)
Critical Pressure	737.1 psia (50.83 bar)
Toxicity	>75% causes hyperoxia