

Oxygen (O₂)

A colorless, odorless, oxidizing compressed gas.

Purity Specifications	Minimum Purity	H ₂ O	THC	CO	CO ₂	Ar	N ₂	Kr
Research	99.999%	< 0.5	< 0.2	< 0.5	< 0.5	< 3	< 5	< 2
Ultra Pure Carrier (UPC)	99.996%	< 1	< 0.5	< 1	< 1	< 20	< 10	
Ultra High Purity (UHP)	99.994%	< 2	< 0.5	< 1	< 1	< 35	< 15	
Zero	99.8%	< 3	< 0.5					

Concentrations given are ppm by volume unless otherwise specified.

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents ft ³	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
Research	300	337	540	OX R300	2,640	Two-Stage Regulator Y12-215* OX Single-Stage Regulator Y11-215* OX	A = 0-25 B = 0-50 D = 0-100	E49
	200	282	540	OX R200	2,200			
80	97	540	OX R80	2,200				
Individual Certificate of Analysis or rigorous application of SPC provided upon request. Certificate of Conformance provided upon request.								
Ultra Pure Carrier (UPC)	300	337	540	OX UPC300	2,640			
	200	282	540	OX UPC200	2,200			
80	97	540	OX UPC80	2,200				
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								
Ultra High Purity (UHP)	300	337	540	OX UHP300	2,640			
	200	282	540	OX UHP200	2,200			
80	97	540	OX UHP80	2,200				
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								
Zero	300	337	540	OX Z300	2,640			
	200	282	540	OX Z200	2,200			
80	97	540	OX Z80	2,200				
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								

* Insert Delivery Pressure Range Code

Technical Data & Shipping Information	
Molecular Weight	32.00
Specific Volume	12.1 cf/lb @70° F
Flammability Limits in Air	Oxidizer
U.S. DOT Name	Oxygen, Compressed
ID Number	UN 1072
U.S. DOT Hazard Class	2.2
U.S. DOT Label	Oxygen or Nonflammable Gas, Oxidizer
CAS Registry	7782-44-7

For LaserPLUS™ Applications, see SA17.