

# Oxygen O<sub>2</sub>

## Physical Constants of Gas

Molecular Weight ..... 32.0  
 Specific Volume ..... 12.1 CF/lb. (0.76 m<sup>3</sup>/kg)  
 Boiling Point ..... -297.4°F (-183°C) 1 atm  
 Gas Density 70°F 1 atm ..... 1.354 kg/m<sup>3</sup>

## Cylinder Data

CGA Valve Outlet ..... 540, 714

## Shipping Data

Shipping Class ..... 70  
 DOT/TC Name ..... Oxygen, Compressed  
 DOT Class ..... 2.2 (Nonflammable Gas)  
 TC Class ..... 2.2 (5.1) Nontoxic,  
 Nonflammable Gas (Oxidizer)  
 WHMIS Class ..... AC  
 DOT Label ..... Nonflammable Gas, Oxidizer  
 CAS Registry No. .... 7782-44-7  
 UN No./ATA No. .... UN1072

## Safety Information

High-pressure oxidizing gas.  
 Vigorously accelerates combustion.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			CF	m <sup>3</sup>	psig	bar	lbs.	kg		
ALPHAGAZ 2 CO < 0.1 ppm CO <sub>2</sub> < 0.5 ppm H <sub>2</sub> < 0.1 ppm H <sub>2</sub> O < 0.5 ppm N <sub>2</sub> < 3 ppm THC < 0.1 ppm	99.9995%	49	337	10	2640	182	170	77	Two-Stage Regulator Q1-318B-540	270
		49 x 16	5392	153	2640	182	2900	1315		
		44	256	7	2265	156	153	70		
		44 x 6 <sup>†</sup>	1536	40	2265	156	993	450		
		16	90	3	2000	138	70	32		
ALPHAGAZ 1 H <sub>2</sub> O < 3 ppm THC < 0.5 ppm	99.999%	49	337	10	2640	182	170	77	Two-Stage Regulator Q1-318B-540	270
		49 x 16	5392	153	2640	182	2900	1315		
		44	256	7	2265	182	153	70		
Electronic Grade 2 CO < 0.5 ppm CO <sub>2</sub> < 0.5 ppm H <sub>2</sub> O < 1 ppm N <sub>2</sub> < 15 ppm THC < 0.1 ppm	99.998%	49	337	10	2640	182	170	77	Two-Stage Regulator Q1-318B-(*) Q1-14C-(*)	270 275
		44	256	7	2640	182	153	70		
Electronic Grade 1 CO < 3 ppm CO <sub>2</sub> < 2 ppm H <sub>2</sub> O < 2 ppm N <sub>2</sub> < 40 ppm THC < 1 ppm	99.995%	49	337	10	2640	182	170	77	Two-Stage Regulator Q1-318B-(*) Q1-14C-(*)	270 275
		44	256	7	2640	182	153	70		

\* Specify CGA. Other cylinder connections are also available – please contact your Air Liquide representative.

† Not available in Canada.

We stock SCOTT™ regulators, manifolds, flowmeters, point-of-use panels, cabinets, valves and related equipment.