

Oxygen

Description Formula:

 O_2

Gas Data

Molecular Weight: 32.00

1.326 kg/m³ @ 21.1°C, 101.325 kPa 0.08279 lb/ft³ @ 70°F, 14.696 psia 0.7541 m³/kg @ 21.1°C, 101.325 kPa 12.08 ft³/lb @ 70°F, 14.696 psia Density: Specific Volume:

Shipping Information CAS Registry Number: 7782-44-7 UN Number: UN 1072 ECCN Number: EAR99

DOT Proper Shipping Name: Oxygen, Compressed DOT Classification: 2.2 (Nonflammable Gas)

NON-FLAMMABLE GAS, OXIDIZER Oxygen, Compressed 2.2, 5.1 DOT Label:

TC Shipping Name: TC Classification: TC Label: NON-FLAMMABLE GAS,

NON-POISONOUS GAS, OXIDIZER

Cylinder Specifications								
Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight Ib kg				
1L	540	2,640	18,202	173	78			
1A	540	2,200	15,168	153	69			
2	540	1,600	11,032	80	36			
3	540	1,600	11,032	41	19			
4	540	1,600	11,032	13	6			
6	540	1,585	10,928	20	9			
7B	540	1,650	11,376	6	3			
7A	540	825	5,688	6	3			
7	540	225	1,551	6	3			
LB	170	1,600	11,032	6	3			

Gas Grade Purity		Product	Cylinder	Content		Equipment	Model		
Specifications			Code	Size	US	Metric	Recommendations	s No.	
Oxygen, Research Purity 99.999%		G2182101	1A	249 ft ³	7.05 m^{3}	Dual Stage Reg.	Series 3810-540		
Guaranteed Specifications			G2182140	2	70 ft ³	1.98 m ³	Single Stage Reg.	Series 3510-540	
Argon	<	5 ppm	G2182150	3	28 ft ³	0.79 m ³	Flash Arrestor	6104A	
Carbon Dioxide	<	0.5 ppm	G2182165	4	10 ft ³	0.28 m ³	Leak Detector	8081A	
Carbon Monoxide	<	0.5 ppm	G2182178	6	3.53 ft ³	100 L	Detector Tube	8014-159SC	
Krypton	<	1 ppm	G2182183	7B	1.76 ft ³	50 L			
Nitrogen	<	5 ppm	G2182182	7A	0.88 ft ³	25 L			
THC	<	0.1 ppm	G2182181	7	0.25 ft ³	7 L			
Water	<	1 ppm							
A Certificate of Analysis is	avail	able on request	at a nominal cha	irge.					
Caution: Not for human co	ทรนท	ption.		-					



Oxygen (continued)

Gas Grade Purity			Product Cylinder		Content		Equipment	Model
Specifications			Code	Size	US	Metric	Recommendations	No.
Oxygen, Matheson Purity 99.997%			G1885112	1L	337 ft ³	9.54 m ³	Dual Stage Reg.	Series 3810-540
Guaranteed Specification	18		G1885101	1A	249 ft ³	7.05 m ³	Single Stage Reg.	Series 3510-540
Argon	<	15 ppm	G1885140	2	70 ft ³	1.98 m ³	LB Regulator	Series 3570-170
Carbon Dioxide	<	1 ppm	G1885150	3	28 ft ³	0.79 m ³	Flash Arrestor	6104A
Carbon Monoxide	<	1 ppm	G1885165	4	10 ft ³	0.28 m ³	Leak Detector	8081A
Krypton	<	10 ppm	G1885175	LB	2 ft³	56 L	Detector Tube	8014-159SC
Nitrogen	<	10 ppm						
THC	<	0.5 ppm						
Water	<	1 ppm						
A Certificate of Analysis is	s availa	ble on request i	at a nominal chi	arge.				
Caution: Not for human co	onsump	tion.						
Oxygen, Ultra High P	urity 9	9.994%	G1979112	1L	337 ft ³	9.54 m³	Dual Stage Reg.	Series 3120-540
Guaranteed Specification	15		G1979101	1A	249 ft ³	7.05 m^3	Single Stage Reg	Series 3530-540
Argon	<	35 ppm	G1979140	2	70 ft ³	1.98 m ³	LB Regulator	Series 3570-170
Carbon Dioxide	<	1 ppm	G1979150	3	28 ft ³	0.79 m ³	Flash Arrestor	6103A-C
Carbon Monoxide	<	1 ppm	G1979165	4	10 ft ³	0.28 m ³	Leak Detector	8081A
Nitrogen	<	10 ppm	G1979175	LB	2 ft³	56 L	Detector Tube	8014-159SC
THC	<	0.5 ppm						
Water	<	3 ppm						
A lot analysis is available of		est. Please inqı	uire for individu	al cylinder anal	ysis.			
Caution: Not for human co	onsump	tion.						
Oxygen, Zero Gas 99.	8%		G2060112	1L	337 ft ³	9.54 m ³	Dual Stage Reg.	Series 3120-540
THC as CH₄	<	0.5 ppm	G2060101	1A	249 ft ³	7.05 m ³	Single Stage Reg.	Series 3530-540
			G2060140	2	70 ft ³	1.98 m ³	LB Regulator	Series 3570-170
			G2060150	3	28 ft ³	0.79 m ³	Flash Arrestor	6103A-O
			G2060165	4	10 ft ³	0.28 m ³	Leak Detector	8081A
			G2060175	LB	2 ft ³	56 L	Detector Tube	8014-159SC
A lot analysis will be provi	ided wi	th each cylinde	r. Please inquire	for individual c	cylinder analysis			
Caution: Not for human co	onsump	tion	,	•				
Oxygen, Extra Dry 99	.6%		G1177201	1A	249 ft ³	7.05 m ³	Dual Stage Reg.	Series 3120-540
			G1177240	2	70 ft ³	1.98 m ³	Single Stage Reg.	Series 3530-540
			G1177250	3	28 ft ³	0.79 m ³	LB Regulator	Series 3550-170
			G1177265	4	10 ft ³	0.28 m ³	Flash Arrestor	6103A-O
			G1177275	LB	2 ft ³	56 L	Leak Detector	8081A
			G1177275	LB	2 ft³	56 L	Leak Detector Detector Tube	8081A 8014-159SC
A Certificate of Conformar	nce will	be provided on		LB	2 ft ³	56 L		

∆WARNING: This product can expose you to chemicals including Nitrous Oxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

 \triangle WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.