



Argon

Description

Formula: Ar

Gas Data

Molecular Weight 39.95
 Density: 1.65 kg/m³ @ 21.1°C, 101.325 kPa
 0.103 lb/ft³ @ 70°F, 14.696 psia
 Specific Volume: 0.606 m³/kg @ 21.1°C, 101.325 kPa
 9.71 ft³/lb @ 70°F, 14.696 psia

Shipping Information

CAS Number: 7440-37-1
 UN Number: UN 1006
 ECCN Number: EAR99
 DOT Proper Shipping Name: Argon, Compressed
 DOT Classification: 2.2 (Nonflammable Gas)
 DOT Label: NON-FLAMMABLE GAS
 TC Shipping Name: Argon, Compressed
 TC Classification: 2.2
 TC Label: NON-FLAMMABLE GAS,
 NON-POISONOUS GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight lb	kg
1U	677	6,000	41,369	381	173
1H	680	3,500	24,132	238	108
1L	580	2,640	18,202	182	83
1A	580	2,490	17,167	161	73
2	580	2,000	13,790	83	38
3	580	2,000	13,790	43	20
4	580	2,000	13,790	23	10
6	580	1,585	10,928	20	9
7B	580	1,650	11,376	6	3
7A	580	825	5,688	6	3
7	580	225	1,551	6	3
LB	170	1,775	12,238	6	3

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Metric	Equipment Recommendations	Model No.	Page No.
Argon, Research Purity 99.9999%	G2101101	1A	280 ft ³	7.93 m ³	Dual Stage Reg.	Consult Factory	–
<i>Guaranteed Specifications</i>	G2101140	2	88 ft ³	2.49 m ³	Single Stage Reg.	Consult Factory	–
Carbon Dioxide < 0.1 ppm	G2101150	3	35 ft ³	0.99 m ³	Leak Detector	8066	406
Carbon Monoxide < 0.1 ppm	G2101165	4	12 ft ³	0.34 m ³	Cyl. Valve Wrench	TW-4, TW-5	430
Nitrogen < 1 ppm	G2101178	6	3.53 ft ³	100 L			
Oxygen < 0.5 ppm	G2101183	7B	1.77 ft ³	50 L			
THC < 0.1 ppm	G2101182	7A	0.88 ft ³	25 L			
Water < 1 ppm	G2101181	7	0.25 ft ³	7 L			
<i>A Certificate of Analysis is available on request at a nominal charge.</i>							
Argon, Matheson Purity 99.9995%	G1801112	1L	331 ft ³	9.37 m ³	Dual Stage Reg.	Series 3810-580	318
<i>Guaranteed Specifications</i>	G1801101	1A	280 ft ³	7.93 m ³	Single Stage Reg.	Series 3510-580	312
Carbon Dioxide < 1 ppm	G1811040	2	88 ft ³	2.49 m ³	LB Regulator	Series 3570-170	314
Carbon Monoxide < 1 ppm	G1811050	3	35 ft ³	0.99 m ³	Leak Detector	8066	406
Oxygen < 1 ppm	G1811065	4	12 ft ³	0.34 m ³	Cyl. Valve Wrench	TW-4*, TW-5	430
THC < 0.5 ppm	G1811075	LB	2 ft ³	56 L			
Water < 1 ppm							
<i>A Certificate of Analysis will be provided with each cylinder at a nominal charge.</i>							
<i>*Except LB – use TW-5</i>							
Argon, Ultra High Purity 99.999%	G1901112	1L	331 ft ³	9.37 m ³	Dual Stage Reg.	Series 3120-580	299
<i>Guaranteed Specifications</i>	G1901101	1A	280 ft ³	7.93 m ³	Single Stage Reg.	Series 3530-580	313
Carbon Dioxide < 1 ppm	G1901140	2	88 ft ³	2.49 m ³	LB Regulator	Series 3550-170	314
Carbon Monoxide < 1 ppm	G1901150	3	35 ft ³	0.99 m ³	Leak Detector	8066	406
Oxygen < 3 ppm	G1901165	4	12 ft ³	0.34 m ³	Cyl. Valve Wrench	TW-4*, TW-5	430
THC < 0.5 ppm	G1901175	LB	2 ft ³	56 L			
Water < 5 ppm							
<i>A lot analysis is available on request. Please inquire for individual cylinder analysis.</i>							
<i>*Except LB – use TW-5</i>							
Argon, UHP Enable 99.999%	G2671451	1L	331 ft ³	9.37 m ³	Dual Stage Reg.	Series 3120-580	299
<i>Guaranteed Specifications</i>	G2671090	1A	280 ft ³	7.93 m ³	Single Stage Reg.	Series 3530-580	313
Carbon Dioxide < 1 ppm					Leak Detector	8066	406
Carbon Monoxide < 1 ppm					Cyl. Valve Wrench	TW-4	430
Nitrogen < 4 ppm							
Oxygen < 1 ppm							
THC < 0.5 ppm							
Water < 1 ppm							
<i>A lot analysis is available on request. Please inquire for individual cylinder analysis.</i>							
Argon, Zero Gas 99.998%	G2017112	1L	331 ft ³	9.37 m ³	Dual Stage Reg.	Series 1250-580	296
Oxygen < 4 ppm	G2017101	1A	280 ft ³	7.93 m ³	Single Stage Reg.	Series 3530-580	313
THC < 0.5 ppm	G2017140	2	88 ft ³	2.49 m ³	LB Regulator	Series 3550-170	314
Water < 5 ppm	G2017150	3	35 ft ³	0.99 m ³	Leak Detector	8066	406
	G2017165	4	12 ft ³	0.34 m ³	Cyl. Valve Wrench	TW-4*, TW-5	430
	G2017175	LB	2 ft ³	56 L			
<i>A lot analysis is available upon request. Please inquire for individual cylinder analysis.</i>							
<i>*Except LB – use TW-5</i>							



Argon (continued)

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.	Page No.
Argon, Prepurified 99.998%	G1114212	1L	331 ft ³	9.37 m ³	Dual Stage Reg. Single Stage Reg. LB Regulator Leak Detector Cyl. Valve Wrench	Series 1250-580	296
	G1114201	1A	280 ft ³	7.93 m ³		Series 3530-580	313
	G1114240	2	88 ft ³	2.49 m ³		Series 3550-170	314
	G1114250	3	35 ft ³	0.99 m ³		8066	406
	G1114265	4	12 ft ³	0.34 m ³		TW-4*, TW-5	430
	G1114275	LB	2 ft ³	56 L			
<p><i>A Certificate of Conformance will be provided on request.</i> <i>A lot analysis is available at a nominal charge.</i> <i>*Except LB – use TW-5</i></p>							
Argon, High Purity 99.995%	G1114112	1L	331 ft ³	9.37 m ³	Dual Stage Reg. Single Stage Reg. LB Regulator Leak Detector Cyl. Valve Wrench	Series 81-580	293
	G1114101	1A	280 ft ³	7.93 m ³		Series 18-580	292
	G1114140	2	88 ft ³	2.49 m ³		Series 3320-170	302
	G1114150	3	35 ft ³	0.99 m ³		8066	406
	G1114165	4	12 ft ³	0.34 m ³		TW-4*, TW-5	430
	G1114175	LB	2 ft ³	56 L			
<p><i>A Certificate of Conformance will be provided on request.</i> <i>* Except LB – use TW-5</i></p>							
Argon, 3500 psig 99.998%	G1114308	1H	386 ft ³	10.93 m ³	Single Stage Reg. Leak Detector	Series 3060-680 8066	298 406
<p><i>A Certificate of Conformance will be provided on request.</i></p>							
Argon, 6000 psig 99.998%	G1114421	1U	570 ft ³	16.14 m ³	Single Stage Reg. Leak Detector	Series 3060-677 8066	298 406
<p><i>A Certificate of Conformance will be provided on request.</i></p>							