

# Argon

## Description

Formula: Ar

## Gas Data

Molecular Weight 39.95  
 Density: 1.65 kg/m<sup>3</sup> @ 21.1°C, 101.325 kPa  
 0.103 lb/ft<sup>3</sup> @ 70°F, 14.696 psia  
 Specific Volume: 0.606 m<sup>3</sup>/kg @ 21.1°C, 101.325 kPa  
 9.71 ft<sup>3</sup>/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	Content Metric	Equipment Recommendations	Model No.
<b>Argon, Research Purity 99.9999%</b>	G2101101	1A	280 ft <sup>3</sup>	Dual Stage Reg.	Consult Factory
<i>Guaranteed Specifications</i>	G2101140	2	88 ft <sup>3</sup>	Single Stage Reg.	Consult Factory
Carbon Dioxide < 0.1 ppm	G2101150	3	35 ft <sup>3</sup>	Leak Detector	8066
Carbon Monoxide < 0.1 ppm	G2101165	4	12 ft <sup>3</sup>	Cyl. Valve Wrench	TW-4, TW-5
Nitrogen < 1 ppm	G2101178	6	3.53 ft <sup>3</sup>		
Oxygen < 0.5 ppm	G2101183	7B	1.77 ft <sup>3</sup>		
THC < 0.1 ppm	G2101182	7A	0.88 ft <sup>3</sup>		
Water < 1 ppm	G2101181	7	0.25 ft <sup>3</sup>		
<i>A Certificate of Analysis is available on request at a nominal charge.</i>					
<b>Argon, Matheson Purity 99.9995%</b>	G1801112	1L	331 ft <sup>3</sup>	Dual Stage Reg.	Series 3810-580
<i>Guaranteed Specifications</i>	G1801101	1A	280 ft <sup>3</sup>	Single Stage Reg.	Series 3510-580
Carbon Dioxide < 1 ppm	G1811040	2	88 ft <sup>3</sup>	LB Regulator	Series 3570-170
Carbon Monoxide < 1 ppm	G1811050	3	35 ft <sup>3</sup>	Leak Detector	8066
Oxygen < 1 ppm	G1811065	4	12 ft <sup>3</sup>	Cyl. Valve Wrench	TW-4*, TW-5
THC < 0.5 ppm	G1811075	LB	2 ft <sup>3</sup>		
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>					
<b>Argon, Ultra High Purity 99.999%</b>	G1901112	1L	331 ft <sup>3</sup>	Dual Stage Reg.	Series 3120-580
<i>Guaranteed Specifications</i>	G1901101	1A	280 ft <sup>3</sup>	Single Stage Reg.	Series 3530-580
Carbon Dioxide < 1 ppm	G1901140	2	88 ft <sup>3</sup>	LB Regulator	Series 3550-170
Carbon Monoxide < 1 ppm	G1901150	3	35 ft <sup>3</sup>	Leak Detector	8066
Oxygen < 3 ppm	G1901165	4	12 ft <sup>3</sup>	Cyl. Valve Wrench	TW-4*, TW-5
THC < 0.5 ppm	G1901175	LB	2 ft <sup>3</sup>		
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>					
<b>Argon, UHP Enable 99.999%</b>	G2671451	1L	331 ft <sup>3</sup>	Dual Stage Reg.	Series 3120-580
<i>Guaranteed Specifications</i>	G2671090	1A	280 ft <sup>3</sup>	Single Stage Reg.	Series 3530-580
Carbon Dioxide < 1 ppm				Leak Detector	8066
Carbon Monoxide < 1 ppm				Cyl. Valve Wrench	TW-4
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>					
<b>Argon, Zero Gas 99.998%</b>	G2017112	1L	331 ft <sup>3</sup>	Dual Stage Reg.	Series 1250-580
Oxygen < 4 ppm	G2017101	1A	280 ft <sup>3</sup>	Single Stage Reg.	Series 3530-580
THC < 0.5 ppm	G2017140	2	88 ft <sup>3</sup>	LB Regulator	Series 3550-170
Water < 5 ppm	G2017150	3	35 ft <sup>3</sup>	Leak Detector	8066
	G2017165	4	12 ft <sup>3</sup>	Cyl. Valve Wrench	TW-4*, TW-5
	G2017175	LB	2 ft <sup>3</sup>		
<i>A lot analysis is available upon request. Please inquire for individual cylinder analysis.</i>					
<i>*Except LB – use TW-5</i>					

⚠ 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](http://www.P65Warnings.ca.gov).