

# Argon Ar

## Physical Constants of Gas

Molecular Weight ..... 39.95  
 Specific Volume ..... 9.7 CF/lb. (0.6 m<sup>3</sup>/kg)  
 Boiling Point ..... -302.6°F (-185.9°C) 1 atm  
 Gas Density 70°F 1 atm ..... 1.67 kg/m<sup>3</sup>

## Cylinder Data

CGA Valve Outlet ..... 580, 677, 718  
 LB CGA Outlet ..... 110, 170

## Shipping Data

Shipping Class ..... 70  
 DOT/TC Name ..... Argon, Compressed  
 DOT Class ..... 2.2 (Nonflammable Gas)  
 TC Class ..... 2.2 (Nontoxic, Nonflammable Gas)  
 WHMIS Class ..... A  
 DOT Label ..... Nonflammable Gas  
 CAS Registry No. .... 7440-37-1  
 UN No./ATA No. .... UN1006

## Safety Information

Argon displaces oxygen in confined spaces and will not support life.  
 Liquid argon can cause frostbite when in contact with skin.

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 O <sub>2</sub> < 0.5 ppm THC < 0.1 ppm	99.9995%	49	336	10	2640	182	177	81	Two-Stage Regulator Q1-318B-580 Q1-14C-580	270 275	
		49 x 16	5376	152	2640	182	3096	1402			
		44	255	7	2265	156	158	72			
		44 x 6†	1530	43	2265	156	1023	464			
ALPHAGAZ 1 H <sub>2</sub> O < 3 ppm O <sub>2</sub> < 2 ppm THC < 0.5 ppm	99.999%	49	336	10	2640	182	177	81	Two-Stage Regulator Q1-318B-580 Q1-211B-580 Q1-14C-580 Single-Stage Regulator Q1-2900AS-677* LB Regulator Q1-20B-580	270 269 275 290 294	
		49 x 16	5376	152	2640	182	3096	1402			
		44	255	7	2265	156	158	72			
		44 x 6†	1530	43	2265	156	1023	464			
		44HH LB	524 2	15 0.1	6000 1800	414 124	357 4	162 2			
ALPHAGAZ 1000 H <sub>2</sub> O < 3 ppm O <sub>2</sub> < 2 ppm THC < 0.5 ppm	99.999% Liquid Phase	450	11003	289	230	16	2388	1083	Single-Stage Regulator Q1-205B-580	269	
		230	6073	160	230	16	928	421			
		180†	4961	130	230	16	773	351			
		160†	4448	117	230	16	710	332			
Electronic Grade 3 (Sputtering Grade) CO + CO <sub>2</sub> < 0.2 ppm H <sub>2</sub> < 0.1 ppm H <sub>2</sub> O < 0.5 ppm N <sub>2</sub> < 0.5 ppm O <sub>2</sub> < 0.2 ppm THC < 0.1 ppm	99.9999%	49	336	10	2640	182	177	81	Two-Stage Regulator Q1-215B-718	271	
		44	255	7	2265	156	158	72			

\* For 44HH cylinder.

† Not available in Canada.

# Argon continued

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			CF	m <sup>3</sup>	psig	bar	lbs.	kg		
Electronic Grade 2 CO < 0.1 ppm CO <sub>2</sub> < 0.1 ppm H <sub>2</sub> < 0.1 ppm H <sub>2</sub> O < 1 ppm N <sub>2</sub> < 3 ppm O <sub>2</sub> < 1 ppm THC < 0.2 ppm	99.9995%	49	336	10	2640	182	178	81	Two-Stage Regulator Q1-318B-718	270
		44	255	7	2265	156	158	72		
		16	83	2	2000	138	74	34		
Electronic Grade 1 CO <sub>2</sub> < 0.5 ppm H <sub>2</sub> < 1 ppm H <sub>2</sub> O < 1 ppm N <sub>2</sub> < 5 ppm O <sub>2</sub> < 1 ppm THC < 0.2 ppm	99.999%	49	336	10	2640	182	178	81	Two-Stage Regulator Q1-318B-718	270
		44	255	7	2265	156	158	72		
		16	83	2	2000	138	74	34		

Need advice on SCOTT™ equipment to safely deliver gas to your point-of-use? Call our Solutions Center at 800.217.2688.