

## AIRGAS® LASERPLUS™ GASES

### Pure Laser Gases

Airgas® offers a complete line of Airgas® LaserPLUS™ gases. To meet the precise and consistent purity specifications needed for optimal laser performance, we produce our Airgas® LaserPLUS™ gases under the strictest quality control. Our manufacturing facilities incorporate the highest standards to help ensure that each cylinder meets or exceeds required purity and tolerance levels.



Purity Specifications	Minimum Purity	O <sub>2</sub>	H <sub>2</sub> O	THC
Airgas® LaserPLUS™ Helium	99.998%	-	<5	<1
Airgas® LaserPLUS™ Nitrogen	99.998%	-	<5	<1
Airgas® LaserPLUS™ Carbon Dioxide	99.995%	-	<5	<5
Airgas® LaserPLUS™ Helium Ultra	99.999%	<1	<2	<0.5
Airgas® LaserPLUS™ Nitrogen Ultra	99.999%	<1	<2	<0.5
Airgas® LaserPLUS™ Carbon Dioxide Ultra	99.996%	<10	<5	<1
Airgas® LaserPLUS™ Argon	99.998%	-	<5	<1
Airgas® LaserPLUS™ Oxygen	99.98%	-	<5	<1

PRODUCT	Ordering Information			
	Cylinder Size	Volume ft <sup>3</sup>	Cylinder Pressure at 70°F (psig)	Product Number
<b>Airgas® LaserPLUS™ Helium</b>	300	291	2,640	Inquire
	Individual or batch Certificate of Analysis is available upon request. Standard value outlet: CGA 580			
<b>Airgas® LaserPLUS™ Nitrogen</b>	300	304	2,640	Inquire
	Individual or batch Certificate of Analysis is available upon request. Standard value outlet: CGA 580			
<b>Airgas® LaserPLUS™ Carbon Dioxide</b>	200	60 lb	838	Inquire
	Individual or batch Certificate of Analysis is available upon request. Standard value outlet: CGA 320			
<b>Airgas® LaserPLUS™ Helium Ultra</b>	300	291	2640	Inquire
	Individual or batch Certificate of Analysis is available upon request. Standard value outlet: CGA 580			
<b>Airgas® LaserPLUS™ Nitrogen Ultra</b>	300	304	2640	Inquire
	Individual or batch Certificate of Analysis is available upon request. Standard value outlet: CGA 580			
<b>Airgas® LaserPLUS™ Carbon Dioxide Ultra</b>	200	60 lb	2640	Inquire
	Individual or batch Certificate of Analysis is available upon request. Standard value outlet: CGA 320			
<b>Airgas® LaserPLUS™ Argon</b>	300	336	2640	Inquire
	Individual or batch Certificate of Analysis is available upon request. Standard value outlet: CGA 580			
<b>Airgas® LaserPLUS™ Oxygen</b>	300	337	2640	Inquire
	Individual or batch Certificate of Analysis is available upon request. Standard value outlet: CGA 540			

### Technical Data & Shipping Information

DOT Class	2.2
DOT Label	Nonflammable Gas
ID No.	Helium: UN1046 Nitrogen: UN1066 Carbon Dioxide: UN1013 Argon: UN 1006 Oxygen: UN 1072

Laser Gas Mixtures

**AIRGAS® LASERPLUS™ GASES**

Product Name	CO <sub>2</sub> (%)	N <sub>2</sub> (%)	He (%)	CO (%)	H <sub>2</sub> (%)	O <sub>2</sub> (%)	Xe (%)
Airgas® LaserPLUS™ 201		90				10	
Airgas® LaserPLUS™ 302	1.7	23.4	74.9				
Airgas® LaserPLUS™ 320	4.5	13.5	82				
Airgas® LaserPLUS™ 321	5	55	40				
Airgas® LaserPLUS™ 323	6	20	74				
Airgas® LaserPLUS™ 324	3.4	15.6	81				
Airgas® LaserPLUS™ 327	6	18	76				
Airgas® LaserPLUS™ 328	12	12	76				
Airgas® LaserPLUS™ 331	5	35	60				
Airgas® LaserPLUS™ 471	15	2	79		4		
Airgas® LaserPLUS™ 472	8	16	74	2			
Airgas® LaserPLUS™ 475	8	8	82	2			
Airgas® LaserPLUS™ 477	8	16	72	4			
Airgas® LaserPLUS™ 483	8	60	28	4			
Airgas® LaserPLUS™ 485	10	23.7	65.1		1.2		
Airgas® LaserPLUS™ 579	9	18	68.7	4	0.3		
Airgas® LaserPLUS™ 581	7.5	15	74.25	3	0.25		
Airgas® LaserPLUS™ 584	8	16	71.6	4	0.4		
Airgas® LaserPLUS™ 690	4	19	65	6		3	3

PRODUCT	Ordering Information			
	Cylinder Size	Volume* ft <sup>3</sup>	Connection	Product Number
Airgas® LaserPLUS™ 201	300	304	590	Inquire
	200	216	590	Inquire
Airgas® LaserPLUS™ 302	300	258	580	Inquire
	200	196	580	Inquire
Airgas® LaserPLUS™ 320	300	259	580	Inquire
	200	196	580	Inquire
Airgas® LaserPLUS™ 321	300	268	580	Inquire
	200	203	580	Inquire
Airgas® LaserPLUS™ 323	300	259	580	Inquire
	200	196	580	Inquire
Airgas® LaserPLUS™ 324	300	259	580	Inquire
	200	196	580	Inquire
Airgas® LaserPLUS™ 327	300	260	580	Inquire
	200	197	580	Inquire
Airgas® LaserPLUS™ 328	300	262	580	Inquire
	200	198	580	Inquire
Airgas® LaserPLUS™ 331	300	262	580	Inquire
	200	199	580	Inquire
Airgas® LaserPLUS™ 471	300	262	350	Inquire
	200	200	350	Inquire
Airgas® LaserPLUS™ 472	150A	133	350	Inquire
Airgas® LaserPLUS™ 475	150A	132	350	Inquire
Airgas® LaserPLUS™ 477	150A	133	350	Inquire
Airgas® LaserPLUS™ 483	150A	140	350	Inquire
Airgas® LaserPLUS™ 485	300	261	350	Inquire
	200	197	350	Inquire
Airgas® LaserPLUS™ 579	150A	133	350	Inquire
Airgas® LaserPLUS™ 581	150A	132	350	Inquire
Airgas® LaserPLUS™ 584	150A	133	350	Inquire
Airgas® LaserPLUS™ 690	650RAL	285 (liters)	350	Inquire

\*Actual volume may vary depending on fill pressure