

**Praxair's LaserStar™ 5.5 Component and Pre-Mixed Gases**

- Offered in aluminum cylinders recognized by the industry as cleaner and lower in contaminants than steel cylinders.
- Certificate of Analysis (COA) can be requested at the time the order is placed.
- The concentration of each minor component of the mixture in the cylinder will be analyzed and confirmed to be within +/- 2% of the requested concentration.
- Produced in select Praxair Specialty Gases laboratories and production centers in North America and stocked in many branch locations.
- Mixtures are prepared using component gases with minimum specifications as listed to the right.

**Specifications**

	Purity	Trace Oxygen	Moisture	Total Hydrocarbons	Total Halocarbons
Helium	99.9995%	< 1 ppm	< 1 ppm	< 0.1 ppm	< 50 ppt
Nitrogen	99.9995%	< 1 ppm	< 2 ppm	< 0.1 ppm	< 50 ppt
Carbon Dioxide	99.9995%	< 2 ppm	< 0.5 ppm	< 0.1 ppb	< 100 ppt

**Component Gases**

	Cylinder Style	Content (ft <sup>3</sup> /m <sup>3</sup> )	Pressure (psig/bar)	Part Number
LaserStar™ 5.5 Helium	AT	239/6.63	2200/152	HE 5.5LS-AT
LaserStar™ 5.5 Nitrogen	AT	250/6.93	2200/152	NI 5.5LS-AT
LaserStar™ 5.5 CO <sub>2</sub>	AT	70 lb/32 kg	2200/152	CD 5.5LS-AT

**Pre-Mixed Resonator Gases**

CO <sub>2</sub>	N <sub>2</sub>	He	CO	Cylinder Style	Content (ft <sup>3</sup> /m <sup>3</sup> )	Pressure (psig/bar)	Part Number
5.0%	55%	40.0%	-	AT	239/6.63	2200/152	LS NICDHEPB2-AT
3.4%	15.6%	81.0%	-	AT	232/6.57	2200/152	LS HECDNIPB14-AT
1.7%	23.4%	74.9%	-	AT	232/6.57	2200/152	LS HECDNIPB6-AT
4.5%	13.5%	82.0%	-	AT	232/6.57	2200/152	LS HECDNIPB1-AT
8.0%	60.0%	28.0%	4.0%	AT	247/6.82	2200/152	LS NIX4PB1-AT

**Praxair's LaserStar™ 5.0 Component and Pre-Mixed Gases**

- Offered in steel cylinders.
- Certificate of Analysis (COA) can be requested at time of order.
- The concentration of each minor component of the mixture will be analyzed and confirmed to be within ± 5% of the requested concentration.
- Produced in Praxair Specialty Gases laboratories and production centers, and available from more than 400 locations in the U.S. and Canada.
- Mixtures are prepared using component gases with minimum specifications as listed to the right.

**Specifications**

	Purity	Trace Oxygen	Moisture	Total Hydrocarbons
Helium	99.999%	< 1 ppm	< 2 ppm	< 0.5 ppm
Nitrogen	99.999%	< 1 ppm	< 3 ppm	< 0.5 ppm
Carbon Dioxide	99.999%	< 5 ppm	< 3 ppm	< 1 ppm

**Component Gases**

	Cylinder Style	Content (ft <sup>3</sup> /m <sup>3</sup> )	Pressure (psig/bar)	Part Number
LaserStar™ 5.0 Helium	T	291/8.1	2640/182	HE 5.0LS-T
	K	218/6.1	2200/152	HE 5.0LS-K
LaserStar™ 5.0 Nitrogen	T	304/8.4	2640/182	NI 5.0LS-T
	K	228/6.3	2200/152	NI 5.0LS-K
LaserStar™ 5.0 CO <sub>2</sub>	K	60 lb/27 kg	2200/152	CD 5.0LS-K

**Pre-mixed Resonator Gases**

CO <sub>2</sub>	N <sub>2</sub>	He	CO	Cylinder Style	Content (ft <sup>3</sup> /m <sup>3</sup> )	Pressure (psig/bar)	Part Number
5.0%	55.0%	40.0%	-	T	291/8.1	2640/182	LS NICDHECB2-T
3.4%	15.6%	81.0%	-	T	281/8.0	2640/182	LS HECDNICB14-T
1.7%	23.4%	74.9%	-	T	278/8.0	2640/182	LS HECDNICB6-T
4.5%	13.5%	82.0%	-	T	281/8.0	2640/182	LS HECDNICB1-T
8.0%	60.0%	28.0%	4.0%	T	272/7.7	2400/166	LS NIX4CB1-T