

Engine Emissions Testing

Air Liquide specialty testing gases deliver classic performance that is destined to become an industry benchmark for compliance and value in engine emissions testing. Their purity, accuracy and reliability actually improve analysis reliability for added compliance assurance. They also decrease operational costs by eliminating test cell downtime due to bad gases.

Air and nitrogen support products feature low trace impurities that improve the reliability of your analytical results and extend the service life of lab instruments and detectors. Two-component and multi-component SCOTT™ mixtures feature NIST-traceability for guaranteed concentration accuracy. Together, Air Liquide provides all calibration gases necessary to comply with Federal and state regulations.

Benefits and Features

- Guaranteed accuracy and purity improves calibration accuracy to prevent expensive downtime.
- Cylinder-to-cylinder repeatability streamlines instrument calibration procedure.
- NIST-traceability ensures $\pm 1\%$ accuracy for most mixtures.
- ISO 17025 laboratory accreditation provides added credibility and confidence.
- Meets or exceeds applicable EPA environmental codes to ensure regulatory compliance.
- Fastest lead time in the industry allows lower on-site inventory of specialty gases.
- Exclusive individually bar coded cylinders and online cylinder management reduces administrative costs.
- Single cylinders or multi-cylinder packs provide flexible gas quantities to meet any need.
- Measurement Proficiency Testing available to monitor reliability of your analysis.

Program Compliance

Air Liquide is the leading supplier of gases used in local emissions testing garages. Many states employ a certification process to qualify gas blenders and their product for use in decentralized state programs. One of the most often referenced certifications is from California's Bureau of Automotive Repair (BAR). Air Liquide meets state certifications as well as Federal EPA I/M 240 and ASM specifications. Following is a listing of the most widely utilized BAR products and their components. The mixtures below are $\pm 1\%$ accurate and NIST-traceable.

Recommended Mobile Engine Applications

Engine emissions testing gases from Air Liquide are specifically engineered for tailpipe analysis and bench testing for all mobile engine applications.

- Aircraft
- Alternative Fuels
- Automotive
- Locomotive
- Marine
- Motorcycle
- Power Equipment
- Other Gasoline and Diesel Applications

Program Certifications

- New York's N.Y. 91
- California BAR
- Colorado A.I.R.
- Other Decentralized State Programs

Certifications	Carbon Dioxide	Carbon Monoxide	Propane	Nitric Oxide	Balance	Cylinder Size	
						30AL	SCOTTY III
	0.5 – 20%	1 ppm – 8.75%	1 ppm – 1.1%		Air	•	
	0.5 – 20%	1 ppm – 10%	1 ppm – 2.9%		N ₂	•	
	0.5 – 20%	1 ppm – 10%	1 ppm – 2.9%	5 – 5000 ppm	N ₂	•	
BAR 90 Mid	12%	4%	1200 ppm		N ₂	•	•
BAR 90 Low	6%	1%	300 ppm		N ₂	•	•
BAR 97 High	12%	8%	3200 ppm	3000 ppm	N ₂	•	•
BAR 97 High (without NO)	12%	8%	3200 ppm		N ₂	•	•
BAR 97 Low	6%	0.5%	200 ppm	300 ppm	N ₂	•	•
BAR 97 Low (without NO)	6%	0.5%	200 ppm		N ₂	•	•
BAR 97 Mid 1	3.6%	2.4%	960 ppm	900 ppm	N ₂	•	•
BAR 97 Mid 2	7.2%	4.8%	1920 ppm	1800 ppm	N ₂	•	•