

CEM Daily Calibration Standards

ENVIRONMENTAL MONITORING

Where EPA Protocol Standards are not required, Continuous Emissions Monitoring (CEM) Daily Calibration Standards are blended to the same exacting standards, are NIST Traceable, and have an analytical accuracy of +/- 2%. In addition to

those components and combinations of components listed as EPA Protocol Standards, the following mixtures are available as daily calibration standards:

CEM Daily Calibration Gases						Equipment Recommendations
Daily Calibration Standards	Concentration Range	CGA Connection	Cylinder Size	Contents ft ³	Pricing Reference Number	Recommended Two-Stage Regulator
Ammonia in Nitrogen	5-99 ppm 100-9999 ppm 1-4%	705	150A	140	NIEMAMA NIEMAM NIEMAMC	Y12-S265D705
Carbon Dioxide in Air	1-99 ppm 100-9999 ppm 1-2.8%	590	150A	140	AIEMCDA AIEMCDB AIEMCDC	Y12-S265D580
Carbon Dioxide in Nitrogen	1-99 ppm 100-9999 ppm 1-30%	580	150A	143	NIEMCDA NIEMCDB NIEMCDC	Y12-S265D580
Carbon Monoxide in Air	1-99 ppm 100-9999 1-2.8%	580	150A	140	AIEMCMA AIEMCMB AIEMCMC	Y12-S265D590
Carbon Monoxide in Nitrogen	1-99 ppm 100-9999 ppm 1-50%	350	150A	143	NIEMCMA NIEMCMB NIEMCMC	Y12-S265D350
Hydrogen Chloride in Nitrogen	25-99 ppm 100-9999 ppm	330	150A	143	NIEMHCA NIEMHCB	Y12-S265D330
Hydrogen Sulfide in Nitrogen	8-99 ppm 100-9999 ppm 1-9%	330	150A	143	NIEMHSA NIEMHSB NIEMHSC	Y12-S265D330
Nitric Oxide in Nitrogen	8-99 ppm 100-9999 ppm 1-17%	660	150A	140	NIEMNCA NIEMNCB NIEMNCC	Y12-S265D660
Oxygen in Nitrogen	1-99 ppm 100-9999 ppm 1-50%	<5%=580 5-23%=580 >23%=296	150A	140	NIEMOXA NIEMOXB NIEMOXC	Y12-S265D580/296
Propane in Air	1-99 ppm 100-999 ppm 1000-3500 ppm	590	150A	140	AIEMPRA AIEMPRB AIEMPRC	Y12-S265D590
Propane in Nitrogen	1-99 ppm 100-999 ppm 0.1-4%	350	150A	140	NIEMPRA NIEMPRB NIEMPRC	Y12-S265D350
Sulfur Dioxide in Air	1-99 ppm 100-999 ppm 0.1-2%	660	150A	143	AIEMSDA AIEMSDB AIEMSDC	Y12-S265D660
Sulfur Dioxide in Nitrogen	1-99 ppm 100-999 ppm 0.1-2%	660	150A	140	NIEMSDA NIEMSDB NIEMSDC	Y12-S265D660

CEM Zero Gases					Equipment Recommendations
Gas	Purity Specifications	CGA Connection	Cylinder Size	Contents ft ³	Recommended Two-Stage Regulator
CEM Zero Air	O ₂ < 20-21% CO < 0.5 ppm CO ₂ < 1.0 ppm H ₂ O < 2 ppm NO _x < 0.1 ppm SO ₂ < 0.1 ppm THC < 0.1 ppm	590	150A 80A	144 76	Y12-S265D590
CEM Zero Nitrogen	CO < 0.5 ppm CO ₂ < 1.0 ppm H ₂ O < 1 ppm NO _x < 0.1 ppm O ₂ < 0.5 ppm SO ₂ < 0.1 ppm THC < 0.1 ppm	580	150A 80A	140 76	Y12-S265D580
Follows CFR Specifications for zero ambient air material. Batch Certificates of Analysis included with each cylinder.					