



SPECTRA PROTOCOL GASES

Zero Grade Gases

Zero Grade Gases

Linde's zero grade air and nitrogen are the products of choice when you require high quality, cost effective, non-regulatory zero gases. Every cylinder is supplied with an individual certificate of analysis to insure the quality that you require.

CEM Zero Grade Gases

Federal, state, and local air pollution control regulations require daily zero and span calibrations for CEMS (continuous emissions monitoring systems). A CEMS must be zeroed with a pure gas that is free of the pollutants being measured. Linde's CEM zero grade air and nitrogen are analyzed for SO₂, NO_x, CO, CO₂, H₂O, and total hydrocarbons. With each individual cylinder being analyzed the quality of CEM zero grade gases is consistent from cylinder to cylinder insuring that the performance of the gas meets and/or exceeds the requirements of all applicable regulations.

VOC Zero Grade Gases

Linde's VOC zero grade gases are the ideal choice for support gas, zero gas, or purging gas for all VOC/THC analysis. This includes EPA ambient methods (TO-14, TO-15, and TO-17) as well as vehicle emission zero gas and CEM THC zero gas.

HiQ® Specialty Gases

The HiQ® specialty gases program from Linde supplies high purity gases, gas mixtures, precision engineered equipment and gas distribution systems, and services and support, to a wide range of industries employing specialty gases applications.

HiQ® products represent Linde's commitment to the highest available quality and global consistency across gases, equipment and services.

Specifications

	Nitrogen			Air			
	Zero	CEM Zero	VOC Zero		Zero	CEM Zero	VOC Zero
CO	<2	<0.5	<0.05	CO	<1	<0.5	<0.5
CO ₂	<2	<1	<0.5	CO ₂	<1	<1	<0.3
H ₂ O	<1	<1	<0.5	H ₂ O	<5	<1	<1
NO _x		<0.1		NO _x		<0.1	
SO ₂		<0.1		SO ₂		<0.1	
THC (as CH ₄)	<1	<0.1	<0.05	THC (as CH ₄)	<1	<0.1	<0.1
O ₂	<1	<0.5	<0.5	O ₂	20-21%	20-21%	20-21%

(all concentrations in ppm except where noted)

Linde Electronics and Specialty Gases

One Greenwich Street, Suite 100, Stewartsville, NJ 08886 USA
 Phone 908-329-9700, Fax 908-329-9740, www.lindeus.com

Linde LLC is a member of the Linde Group. Linde is a trading name used by companies within The Linde Group. The Linde logo and the words Linde and SPECTRA, HiQ®, REDLINE®, BASELINE®, SPECTRA-SEAL®, ECOCYL® and VERISEQ® are trademarks of The Linde Group. Copyright The Linde Group 2010.