

ANALYTICAL GASES

Flame Ionization Detector (FID) Fuel Gases

Used with FIDs in gas chromatography and continuous stream hydrocarbon analyzers.

				Equipment Recommendations	
Concentration	Cylinder Size	≈Contents ft ³	Product Number		Page Number
40% Hydrogen Balance Helium THC ≤ 0.5 ppm	300	298	X02HE60A3003005	Two-Stage Regulators Y12-N145D350 Y12-244D350	E21 E12
	200	200	X02HE60A2003005		
	80	76	X02HE60A803005		
40% Hydrogen Balance Nitrogen THC ≤ 0.5 ppm	300	298	X02Ni60A3003006		
	200	200	X02Ni60A2003006		
	80	76	X02Ni60A803006		
*39-41% Hydrogen Balance Helium THC ≤ 0.05 ppm	300	298	X02HE60A300C3K1		
	200	200	X02HE60A200C146		
	80	76	X02HE60A80C558		
Individual Certificate of Analysis or Certificate of Batch Analysis available upon request. Minimum of Ultra Zero Air recommended for optimal analytical results. Standard valve outlet: 350 *Product meets 40 CFR PART 1065— Engine Testing Procedure requirements.					

Technical Data

Cylinder Pressure:	
Size 300	2400 psig
All Other Sizes	2000 psig
DOT Class	2.1
DOT Label	Flammable Gas
ID No.	UN1954

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Electron Capture Detector (ECD) Gases

A minimum of UHP grade gases are recommended for optimal analytical results.

				Equipment Recommendations	
Concentration	Cylinder Size	≈Contents ft ³	Product Number		Page Number
Ultra ECD Grade P-5 5% UHP Methane Balance UHP Argon	300	302	X02AR95J3001826	Two-Stage Regulators Y12-N245D350 Y12-244D350	E21 E12
	200	223	X02AR95J2000286		
	80	85	X02AR95J800995		
Ultra ECD Grade P-10 10% UHP Methane Balance UHP Argon	300	302	X02AR90J3000339		
	200	223	X02AR90J2000288		
	80	85	X02AR90J804972		
Individual Certificate of Analysis or Certificate of Batch Analysis available upon request. Standard valve outlet: 350 Performance qualified to confirm <1 ppb SF6 equivalent ECD response.				* Insert Delivery Pressure Range Code	

Technical Data

Cylinder Pressure	2000 psig
DOT Class	2.2
DOT Label	Nonflammable Gas
ID No.	UN1956

Leak Detection Gases

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Gas mixtures containing helium allow for more sensitive and accurate leak detection than a simple pressure test.

				Equipment Recommendations	
Concentration	Cylinder Size	≈Contents ft ³	Product Number		Page Number
0.5 - 10% Helium Balance Nitrogen	300	278	Inquire	Two-Stage Regulators Y12-N145D580 Y12-244D580	E21 E12
	200	208	Inquire		
	80	82	Inquire		
Individual Certificate of Analysis or Certificate of Batch Analysis available upon request. Standard valve outlet: 580					

Technical Data	
Cylinder Pressure	2000 psig
DOT Class	2.2
DOT Label	Nonflammable Gas
ID No.	UN1956

Nuclear Counter Gases

ANALYTICAL GASES

Formulated for instrumentation measuring radioactivity and ionization.

				Equipment Recommendations	
Concentration	Cylinder Size	≈Contents ft ³	Product Number		Page Number
P-10 10% Methane Balance Argon	300	302	X02AR90D3000979	Two-Stage Regulators Y12-N245D350 Y12-244D350	E21 E12
	200	223	X02AR90D2000291		
	80	85	X02AR90D804302		
P-5 5% Methane Balance Argon	300	302	X02AR95D3002178		
	200	223	X02AR95D2000994		
	80	85	X02AR95D800995		
Quench Gas 1.3% n-Butane Balance Helium	200	163	X02HE98D2005171		
Geiger Flow Gas 0.95% Isobutane Balance Helium	200	196	X02HE99D200R767		
Individual Certificate of Analysis or Certificate of Batch Analysis available upon request. Standard valve outlet: 350					

Technical Data	
Cylinder Pressure	
Size 300	2400 psig
Quench Gas	1650 psig
All Other Sizes	2000 psig
DOT Class	2.2
DOT Label	Nonflammable Gas
ID No.	UN1956