



Electron Capture Detector Mixtures

Electron Capture Detector Mixtures are recommended for improved method detection limits and decreased baseline noise. Our Ultra P-5 mixtures are suitable for detecting ppt and ppb halocarbons. In addition, both P-5 mixture grades contain trace levels of moisture and oxygen.

For information on Nitrogen Carrier gases, please refer to pages 1 - 2 Pure Gases and Instrument Support Gases.

Shipping Information

UN Number:	UN 1956
DOT Proper Shipping Name:	Compressed Gas, nos (<i>Methane, Argon</i>)
DOT Classification:	2.2 (Nonflammable Gas)
DOT Label:	NON-FLAMMABLE GAS
TC Shipping Name:	Compressed Gas, nos (<i>Methane, Argon</i>)
TC Classification:	2.2
TC Label:	NON-FLAMMABLE GAS, NON-POISONOUS GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight	
				lb	kg
1L	350	2,400	16,547	186	84
1A	350	2,000	13,790	153	69
2	350	2,000	13,790	83	38
3	350	2,000	13,790	37	17

Gas Mixture Specifications	Product Code	Cylinder Size	Content		Equipment Recommendations	Model No.	Page No.
			US	Metric			
Ultra P-5	G0855112	1L	302 ft ³	8.55 m ³	Dual Stage Reg. Single Stage Reg.	Series 3810-350* Series 3510-350*	318
5% Methane	G0855101	1A	225 ft ³	6.37 m ³			
95% Argon	G0855140	2	88 ft ³	2.49 m ³			
Guaranteed Specifications	G2658438	3	38 ft ³	1.08 m ³			
Oxygen <				1 ppm			
Total Halocarbons <				0.5 ppb			
Water <				1 ppm			
P-5 Zero Grade	G0854112	1L	302 ft ³	8.55 m ³	Dual Stage Reg. Single Stage Reg.	Series 1251-350 Series 3530-350	296 313
5% Methane	G0854101	1A	225 ft ³	6.37 m ³			
95% Argon	G0854140	2	88 ft ³	2.49 m ³			
Guaranteed Specifications	G2658439	3	38 ft ³	1.08 m ³			
Oxygen <				2 ppm			
Water <				5 ppm			

*Ask about "No-Lube" assembly

Matheson Engineered Gas Delivery Systems

Matheson's engineers are experts in all scales of supplying gases and required gas purity where you need it, including facility design, laboratory design, and point-of-use requirements. See pages 257 - 284.

Systems and components are recommended to ensure integrity of results including water and oxygen free systems, cleaning for oxygen service, and materials compatibility.

Matheson Cross Purge Assemblies are recommended for instrument carrier gases as well. Even with single cylinder carrier gas, cross purge assemblies keep atmospheric air and water from being purged into the GC column or instrument detector. See pages 422 - 423.

Matheson offers manual and automated changeover manifolds to ensure continuous carrier gas supply. See pages 268 - 272.

Matheson's Point-of-Use Panels provide at site instrument gases' control and performance, with aesthetics, as well. See pages 274 - 275.