



Laboratory and Analysis Mixtures

Air Liquide offers our ALPHAGAZ MIX products that are routinely used for the operation of many different analytical instruments.

Electron Capture

Cylinder Pressure

49 2400 psig (165 bar)
 44 2000 psig (138 bar)

Cylinder Valve Outlet CGA No. 350

DOT/TC Label

5% CH₄/Ar Nonflammable
 8.5% H₂/He Flammable

Impurities

Oxygen < 5 ppm
 H₂O < 5 ppm

Recommended Equipment

Two-Stage Regulator Model 318, Page 270
 Single-Stage Regulator Model 3300, Page 270

Specifications				
Concentration	Size	Contents		ALPHAGAZ MIX
		CF	m ³	
ALPHAGAZ MIX P-5 ECD* 5% Methane Balance: Argon	49	307	9	•
	44	225	6	
8.5% Hydrogen Balance: Helium	49	261	7	•
	44	211	6	

* Batch analyzed for halocarbons.



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Flame Ionization Fuel

Cylinder Pressure

49	2400 psig (165 bar)
44	2000 psig (138 bar)
Cylinder Valve Outlet CGA No.	350
DOT/TC Label	Flammable

Impurities

Oxygen	< 5 ppm
H ₂ O	< 5 ppm
THC	< 0.5 ppm

Recommended Equipment

Two-Stage Regulator	Model 318, Page 270
Single-Stage Regulator	Model 3300, Page 270

Specifications				
Concentration	Size	Contents		ALPHAGAZ MIX
		CF	m ³	
ALPHAGAZ MIX N ₂ FID	49	266	8	•
40% Hydrogen 60% Nitrogen	44	198	6	
ALPHAGAZ MIX He FID	49	259	7	•
40% Hydrogen	44	192	5	
60% Helium	110	3.9		
ALPHAGAZ MIX 1065*	49	259	7	•
39.6 – 40.4% Hydrogen	44	192	5	
Balance: Helium	44 x 6**	1152	30	

* THC < 0.05 ppm.

** Not in Canada.



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Furnace Gas

Cylinder Pressure

H₂ in N₂ 2000 psig (138 bar)
 CO and CO₂ 1500 psig (103 bar)

Cylinder Valve Outlet CGA No. 350

DOT/TC Label

< 4% H₂/N₂ Nonflammable
 > 4% H₂/N₂ Flammable
 60% CO/40% CO₂ Flammable

Impurities

Oxygen < 5 ppm
 H₂O < 5 ppm

Recommended Equipment

Two-Stage Regulator Model 318, Page 270
 Single-Stage Regulator Model 3300, Page 270

Specifications				
Concentration	Size	Contents		ALPHAGAZ MIX
		CF	m ³	
0.1 to 10% Hydrogen Balance: Nitrogen	44	200	6	•
	16	67	2	
60% Carbon Monoxide 40% Carbon Dioxide	44	185	5	•
	16	62	2	



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Nuclear Counter

Cylinder Pressure
 49 2400 psig (165 bar)
 44 2000 psig (138 bar)
 Cylinder Valve Outlet CGA No. 350
 DOT/TC Label Nonflammable

Impurities
 Oxygen < 5 ppm
 H₂O < 5 ppm

Recommended Equipment
 Two-Stage Regulator Model 318, Page 270
 Single-Stage Regulator Model 3300, Page 270

Specifications				
Concentration	Size	Contents		ALPHAGAZ MIX
		CF	m ³	
ALPHAGAZ MIX P-5 5% Methane Balance: Argon	49	307	9	•
	44	225	6	•
ALPHAGAZ MIX P-10 10% Methane Balance: Argon	49	307	9	•
	44	225	6	•
Geiger Flow Gas 0.95% Isobutane Balance: Helium	49	266	8	•
	44	197	6	•
Quench Gas (Q Gas) 1.3% n-Butane Balance: Helium	49	190	5	•
	44	169	5	•
1.5% Propane Balance: Helium	49	266	8	•
	44	197	6	•



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Spark Chamber Neon

Cylinder Pressure 2000 psig (138 bar)
 Cylinder Valve Outlet CGA No. 580
 DOT/TC Label Nonflammable

Impurities
 Oxygen < 5 ppm
 H₂O < 5 ppm

Recommended Equipment
 Two-Stage Regulator Model 318, Page 270
 Single-Stage Regulator Model 3300, Page 270

Specifications				
Concentration	Size	Contents		ALPHAGAZ MIX
		CF	m ³	
10% Helium	44	200	6	•
Balance: Neon	16	67	2	•
20% Helium	44	206	6	•
Balance: Neon	16	67	2	•