



Flame Ionization Detector Mixtures

Matheson FID fuels are available in two grades to meet your specific application. Our Ultra Grade is suitable for applications requiring low hydrocarbon impurity concentrations such as emissions monitoring.

For information regarding FID carrier gases please refer to page 1 Gas Mixtures – Gas Chromatography Calibration Standards, and Carrier Gases.

Shipping Information

UN Number:	UN 1954
DOT Proper Shipping Name:	Compressed Gas, nos (List of Components)
DOT Classification:	2.1 (Flammable Gas)
DOT Label:	FLAMMABLE GAS
TC Shipping Name:	Compressed Gas, nos (List of Components)
TC Classification:	2.1
TC Label:	FLAMMABLE GAS

Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure		Approximate Ship Weight	
		psig @ 70°F	kPa @ 21.1°C	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			
FID Fuel, Ultra Grade 40% Hydrogen 60% Helium <i>Guaranteed Specifications</i>	G0864212	1L	269 ft ³	7.62 m ³	Dual Stage Reg. Single Stage Reg.	Series 3120-350 Series 3530-350	299 313
	G0864201	1A	202 ft ³	5.72 m ³			
	G0864240	2	79 ft ³	2.24 m ³			
	G2658476	3	34 ft ³	0.96 m ³			
	Hydrogen	39-41%					
THC as Methane	≤ 0.1 ppm						
Water	≤ 1 ppm						
FID Fuel, Zero Grade 40% Hydrogen 60% Helium <i>Guaranteed Specifications</i>	G0867112	1L	269 ft ³	7.62 m ³	Dual Stage Reg. Single Stage Reg.	Series 3120-350 Series 3530-350	299 313
	G0867101	1A	202 ft ³	5.72 m ³			
	G0867140	2	79 ft ³	2.24 m ³			
	G0867150	3	34 ft ³	0.96 m ³			
	Hydrogen	38-42%					
THC as Methane	≤ 0.5 ppm						
FID Fuel, Ultra Grade 40% Hydrogen 60% Nitrogen <i>Guaranteed Specifications</i>	G0864012	1L	282 ft ³	7.99 m ³	Dual Stage Reg. Single Stage Reg.	Series 3120-350 Series 3530-350	299 313
	G0864001	1A	213 ft ³	6.03 m ³			
	G0864040	2	83 ft ³	2.35 m ³			
	G0864050	3	35 ft ³	0.99 m ³			
	Hydrogen	39-41%					
THC as Methane	≤ 0.1 ppm						
Water	≤ 1 ppm						
FID Fuel, Zero Grade 40% Hydrogen 60% Nitrogen <i>Guaranteed Specifications</i>	G0866112	1L	282 ft ³	7.99 m ³	Dual Stage Reg. Single Stage Reg.	Series 3120-350 Series 3530-350	299 313
	G0866101	1A	213 ft ³	6.03 m ³			
	G0866140	2	83 ft ³	2.35 m ³			
	G0866150	3	35 ft ³	0.99 m ³			
	Hydrogen	38-42%					
THC as Methane	≤ 0.5 ppm						