



METHANE

2 COMPONENT MIXTURES

METHANE BALANCE AIR					
Concentration*	Cylinder Size	Volume (ft ³)	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 2.5%	DA	146	590	EPA Protocol ^{1 2}	400 Series regulator
L.E.L. 5%	QA	84		Primary Lab Master	
	GA	32		Certified Lab Master	
	K	200		Primary Standard	
	Q	67		Certified Standard	
	G	34		Uncertified	
D.O.T. Proper Shipping Name:		Compressed gas, n.o.s., (Air, Methane)			
I.D. Number:		UN1956			
Hazard Class:		2.2			
Shipping Labels:		Nonflammable Gas			

METHANE BALANCE ARGON					
Concentration*	Cylinder Size	Volume (ft ³)	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 50%	DA	146	590	Primary Standard	400 Series regulator
	QA	84		Certified Standard	
	GA	32		Uncertified	
	K	200			
	Q	67			
	G	34			
Flammability Concentration Range:			≤ 10.0% (P10 MIXTURES)		≥ 10.1%
D.O.T. Proper Shipping Name:		Compressed gas, n.o.s., (Argon, Methane)		Compressed gas, flammable, n.o.s., (Argon, Methane)	
I.D. Number:		UN1956		UN1954	
Hazard Class:		2.2		2.1	
Shipping Labels:		Nonflammable Gas		Flammable Gas	

METHANE BALANCE HELIUM					
Concentration	Cylinder Size	Volume (ft ³)	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 50%	DA	146	350	Primary Standard	400 Series regulator
	QA	84		Certified Standard	
	GA	32		Uncertified	
	K	200			
	Q	67			
	G	34			
Flammability Concentration Range:			≤ 10.1%		≥ 10.2%
D.O.T. Proper Shipping Name:		Compressed gas, n.o.s., (Helium, Methane)		Compressed gas, flammable, n.o.s., (Helium, Methane)	
I.D. Number:		UN1956		UN1954	
Hazard Class:		2.2		2.1	
Shipping Labels:		Nonflammable Gas		Flammable Gas	



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METHANE BALANCE HYDROGEN					
Concentration	Cylinder Size	Volume (ft ³)	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 50%	DA	146	350	Primary Standard	400 Series regulator
	QA	84		Certified Standard	
	GA	32		Uncertified	
	K	200			
	Q	67			
	G	34			
D.O.T. Proper Shipping Name:		Compressed gas, n.o.s., (Hydrogen, Methane)			
I.D. Number:		UN1954			
Hazard Class:		2.1			
Shipping Labels:		Flammable Gas			

METHANE BALANCE NITROGEN					
Concentration	Cylinder Size	Volume (ft ³)	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 50%	DA	146	350	EPA Protocol ^{1 2}	400 Series regulator
	QA	84		Primary Lab Master	
	GA	32		Certified Lab Master	
	K	200		Primary Standard	
	Q	67		Certified Standard	
	G	34		Uncertified	
Flammability Concentration Range:		< 14.3%		≥ 14.3%	
D.O.T. Proper Shipping Name:		Compressed gas, n.o.s., (Nitrogen, Methane)		Compressed gas, flammable, n.o.s., (Nitrogen, Methane)	
I.D. Number:		UN1956		UN1954	
Hazard Class:		2.2		2.1	
Shipping Labels:		Nonflammable Gas		Flammable Gas	

*Cylinder pressure and volume varies proportionately at higher concentrations.

¹Available in aluminum cylinders only.

²EPA Protocol concentrations is based on NIST Traceable Standards available. Please inquire.

A certification will be provided upon request for a nominal fee, except for uncertified mixtures.

TECHNICAL INFORMATION	
High Pressure Cylinder:	2000 psig @ 70° Fahrenheit



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BUILD MIXTURE PART NUMBER:

To build your part number, select the code that corresponds to each section. Start with the Balance Gas, next enter the Minor Component followed by the Minor Component Concentration. Then select the Mixture Grade and finally the Cylinder Size. Add a dash “-” before the size code to complete the part number. Let’s create a part number. For example, take a Primary Standard grade of 5 ppm METHANE balance NITROGEN in a size DA cylinder. From the table below we can follow the tables to come up with NI MET5MP-DA.

Balance Gas (A B)		Minor Comp Code (C D E)		Minor Component Concentration ([E] F G H I)		Mixture Grade (J)		Cylinder Size (K L)
Balance Gas	Code	Minor Gas	Code	Concentration	Code	Grade	Code	Code
Air	AI	Methane	MET	5 PPM to 99 PPM	5M – 99M	EPA Protocol'	E	DA
Argon	AR			100 PPM to 999 PPM	100 – 999	Primary Lab Master	PM	QA
Helium	HE			1,000 PPM to 9,999 PPM	1000 – 9999	Certified Lab Master	CM	GA
Hydrogen	HY			1% to 50%	1 – 50	Primary Standard	P	K
Nitrogen	NI			Certified Standard	C	Q		
						Uncertified	U	G
Example Only:								
NI		MET		5M		P		DA