



# ETHYLENE

## 2 COMPONENT MIXTURES

ETHYLENE BALANCE AIR					
Concentration*	Cylinder Size	Volume (ft <sup>3</sup> )	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 1.35%	DA	146	590	Primary Standard	400 Series regulator
L.E.L. 2.7%	QA	84		Certified Standard	
	GA	32		Uncertified	
	K	200			
	Q	67			
	G	34			
D.O.T. Proper Shipping Name: I.D. Number: Hazard Class: Shipping Labels:	Compressed gas, n.o.s., (Air, Ethylene) UN1956 2.2 Nonflammable Gas				

ETHYLENE BALANCE HELIUM					
Concentration	Cylinder Size	Volume (ft <sup>3</sup> )	CGA	Mixture Grades Available	Equipment Recommended
0.5 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:	< 4.1%			≥ 4.1%	
D.O.T. Proper Shipping Name: I.D. Number: Hazard Class: Shipping Labels:	Compressed gas, n.o.s., (Helium, Ethylene) UN1956 2.2 Nonflammable Gas			Compressed gas, flammable, n.o.s., (Helium, Ethylene) UN1954 2.1 Flammable Gas	

ETHYLENE BALANCE NITROGEN					
Concentration	Cylinder Size	Volume (ft <sup>3</sup> )	CGA	Mixture Grades Available	Equipment Recommended
0.5 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:	< 6.0%			≥ 6.0%	
D.O.T. Proper Shipping Name: I.D. Number: Hazard Class: Shipping Labels:	Compressed gas, n.o.s., (Nitrogen, Ethylene) UN1956 2.2 Nonflammable Gas			Compressed gas, flammable, n.o.s., (Nitrogen, Ethylene) UN1954 2.1 Flammable Gas	

\*Cylinder pressure and volume varies proportionately at higher concentrations.

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 ETHYLENE balance NITROGEN in a size DA cylinder. From the table below we can follow the tables to come up with NI EY5MP-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	Ethylene	EY	5 PPM to 99 PPM	5M – 99M	Primary Standard	P	DA
Helium	HE			100 PPM to 999 PPM	100 – 999	Certified Standard	C	QA
Nitrogen	NI			1,000 PPM to 9,999 PPM	1000 – 9999	Uncertified	U	GA
				1% to 50%	1 – 50			K Q G
<b>Example Only:</b> NI		EY		5M		P		DA