

CARBON MONOXIDE

2 COMPONENT MIXTURES

CARBON MONOXIDE BALANCE AIR									
Concentration*	Cylinder Size	e Volume (ft³) CGA Mixture G		Mixture Grades Available	Equipment Recommended				
1 ppm – 50%	DA	146	590	EPA Protocol ¹	400 Series regulator				
	QA	84		Primary Lab Master					
	GA 32 Certified Lab Master								
	K 200 Primary Standard			Primary Standard					
	Q	67 Cert		Certified Standard					
	G	34		Uncertified					
D.O.T. Proper Shipping Name:	Compressed gas, n.o.s., (Air, Carbon Monoxide)								
I.D. Number:	UN1956								
Hazard Class:	2.2								
Shipping Labels:	Nonflammable Gas								

CARBON MONOXIDE BALANCE ARGON								
Concentration*	Cylinder Size	Volume (ft³)	CGA	Mixtu	re Grades Available	Equipment Recommended		
1 ppm – 50%	DA	146	590	Prima	ry Standard	400 Series regulator		
	QA	84		Certifi	ed Standard	_		
	GA	32		Uncertified				
	K	200						
	Q	67						
	G	34						
Flammability Concentration Range:	< 11.1%				≥ 11.1%			
D.O.T. Proper Shipping Name:	Compressed gas, n.o.s., (Argon, Carbon Monoxide)				Compressed gas, flammable, n.o.s., (Argon, Carbon Monoxide)			
I.D. Number:	UN1956				UN1954			
Hazard Class:	2.2 Nonflammable Gas				2.1			
Shipping Labels:					Flammable Gas			

CARBON MONOXIDE BALANCE HELIUM								
Concentration	Cylinder Size	Volume (ft³)	CGA	Mixture Grades Available		Equipment Recommended		
1 ppm – 50%	DA	146	350	Prima	ry Standard	400 Series regulator		
	QA	84		Certified Standard				
	GA	32		Uncertified				
	K	200						
	Q	67						
	G	34						
Flammability Concentration Range:	Flammability Concentration Range: < 14.3%				≥ 14.3%			
D.O.T. Proper Shipping Name:	Compressed gas, n.	Compressed gas, n.o.s., (Helium, Carbon Monoxide)			Compressed gas, flamma	ble, n.o.s., (Helium, Carbon Monoxide)		
I.D. Number:	UN1956				UN1954			
Hazard Class:	2.2				2.1			
Shipping Labels:	Nonflammable Gas Flammable Gas				Flammable Gas			



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CARBON MONOXIDE BALANCE HYDROGEN									
Concentration	Cylinder Size	Volume (ft³)	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, Carbon Monoxide)								
I.D. Number:	UN1954								
Hazard Class:	2.1								
Shipping Labels:	Flammable Gas	i							

CARBON MONOXIDE BALANCE NITROGEN								
Concentration	Cylinder Size	Volume (ft³)	CGA	Mixture Grades Available	Equipment Recommended			
1 ppm – 50%	DA	146	350	EPA Protocol ¹	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:	< 20%			≥ 20%				
D.O.T. Proper Shipping Name:	, ,	.o.s., (Nitrogen, Cart	oon Monoxid	,	Compressed gas, flammable, n.o.s., (Nitrogen, Carbon Monoxide)			
I.D. Number:	UN1956			UN1954				
Hazard Class:	2.2			2.1				
Shipping Labels:	Nonflammable Ga	as		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

¹ Available in aluminum cylinders only. Available concentrations for NIST Traceable mixtures to be determined by the availability of reference materials.



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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 CARBON MONOXIDE balance NITROGEN in a size DA cylinder. From the table below we can follow the tables to come up with NI CO5MP-DA.

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