



# HYDROGEN SULFIDE

## 2 COMPONENT MIXTURES

HYDROGEN SULFIDE BALANCE AIR					
Concentration*	Cylinder Size	Volume (ft <sup>3</sup> )	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 2.15%	DA	142	330	EPA Protocol <sup>1</sup>	400 Series regulator
L.E.L. 4.3%	QA	75		Primary Lab Master	
	GA	29		Certified Lab Master	
	K	209		Primary Standard	
	Q	71		Certified Standard	
	G	34		Uncertified	
D.O.T. Proper Shipping Name:		Compressed gas, n.o.s., (Air, Hydrogen Sulfide)			
I.D. Number:		UN1956			
Hazard Class:		2.2			
Shipping Labels:		Nonflammable Gas			

HYDROGEN SULFIDE BALANCE ARGON					
Concentration*	Cylinder Size	Volume (ft <sup>3</sup> )	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 50%	DA	132	330	Primary Standard	400 Series regulator
	QA	70		Certified Standard	
	GA	27		Uncertified	
	K	194			
	Q	66			
	G	32			
<b>Concentration Range:</b>	<b>&lt; 3.5%</b>			<b>≥ 3.5%</b>	
D.O.T. Proper Shipping Name:		Compressed gas, n.o.s., (Argon, Hydrogen Sulfide)		Compressed gas, flammable, n.o.s., (Argon, Hydrogen Sulfide)	
I.D. Number:		UN1956		UN1954	
Hazard Class:		2.2		2.1	
Shipping Labels:		Nonflammable Gas		Flammable Gas	

HYDROGEN SULFIDE BALANCE HELIUM					
Concentration	Cylinder Size	Volume (ft <sup>3</sup> )	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 50%	DA	132	330	Primary Standard	400 Series regulator
	QA	70		Certified Standard	
	GA	27		Uncertified	
	K	194			
	Q	66			
	G	32			
<b>Concentration Range:</b>	<b>&lt; 4.6%</b>			<b>≥ 4.6%</b>	
D.O.T. Proper Shipping Name:		Compressed gas, n.o.s., (Helium, Hydrogen Sulfide)		Compressed gas, flammable, n.o.s., (Helium, Hydrogen Sulfide)	
I.D. Number:		UN1956		UN1954	
Hazard Class:		2.2		2.1	
Shipping Labels:		Nonflammable Gas		Flammable Gas	



# HYDROGEN SULFIDE

## 2 COMPONENT MIXTURES

HYDROGEN SULFIDE BALANCE NITROGEN					
Concentration	Cylinder Size	Volume (ft <sup>3</sup> )	CGA	Mixture Grades Available	Equipment Recommended
1 ppm – 50%	DA	132	330	EPA Protocol <sup>1</sup>	400 Series regulator
	QA	70		Primary Lab Master	
	GA	27		Certified Lab Master	
	K	194		Primary Standard	
	Q	66		Certified Standard	
	G	32		Uncertified	
<b>Concentration Range:</b>	<b>&lt; 6.7%</b>			<b>≥ 6.7%</b>	
D.O.T. Proper Shipping Name:	Compressed gas, n.o.s., (Nitrogen, Hydrogen Sulfide)			Compressed gas, flammable, n.o.s., (Nitrogen, Hydrogen Sulfide)	
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.

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

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

### 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 HYDROGEN SULFIDE balance NITROGEN in a size DA cylinder. From the table below we can follow the tables to come up with NI HS5MP-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	Hydrogen Sulfide	HS	5 PPM to 99 PPM	5M – 99M	EPA Protocol <sup>1</sup>	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
Methane	MET			1% to 50%	1 – 50	Primary Standard	P	K
Nitrogen	NI			Certified Standard	C	Q		
						Uncertified	U	G
<b>Example Only:</b>		<b>HS</b>		<b>5M</b>		<b>P</b>		<b>DA</b>
<b>NI</b>								