Gas Mixtures: Phosphine in N₂, H₂, He Mixes

Component	PH₃	N₂	H ₂	Не	
Grade	5N7	5N	5N	5N	
Purity, %	99.9997	99.999	99.999	99.999	
Oxygen	≤0.1 ppmv	≤3.0 ppmv	≤2.0 ppmv	≤2.0 ppmv	
Nitrogen	≤1.0 ppmv		≤5.0 ppmv	≤3.0 ppmv	
Carbon Dioxide	≤0.1 ppmv	≤1.0 ppmv	≤1.0 ppmv	≤1.0 ppmv	
Carbon Monoxide	≤0.1 ppmv	≤1.0 ppmv	≤1.0 ppmv	≤1.0 ppmv	
Methane	≤0.1 ppmv	≤1.0 ppmv	≤0.5 ppmv	≤1.0 ppmv	
Water	≤1.0 ppmv	≤3.0 ppmv	≤3.0 ppmv	≤3.0 ppmv	

	CAS No.	7803-51-2	7727-37-9	1333-74-0	7440-59-7	
TECHNICAL - SHIP	UN Number	UN 2199	UN 1066	UN 1049	UN 1046	
	DOT Shipping Name	Phosphine	Nitrogen,	Hydrogen,	Helium,	
			compressed	compressed	compressed	
	DOT Classification	2.3 (2.1)	2.2	2.1	2.2	
		Poison Gas	Non-Flammable Gas	Flammable Gas	Non-Flammable Gas	
	DOT Label	POISON	NON-FLAMMABLE	FLAMMABLE	NON-FLAMMABLE	
		GAS	GAS	GAS	GAS	
	Specific Volume @STP	0.71 m³/Kg	0.86 m³/Kg	12.0 m³/Kg	6.04 m³/Kg	
		11.4 ft ³ /lb	13.9 ft³/lb	191.3 ft³/lb	96.2 ft³/lb	
	Molecular Weight	34 g/mol	28.01 g/mol	2.02 g/mol	4.0 g/mol	
	CGA/DISS/JIS	350/632/W22-14L				

• All mixes are manufactured to "Certified" grade – custom grades are available upon request

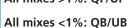
• Pneumatic valves, DIN and JIS connections are available upon request

• STP = 21°C or 70°F and 101.3 KPa or 1 atm

• Pure gas Technical and Ship data above are reported for reference only

CYLINDER	PH ₃	43.8	7.3	← Cylinder internal volume, liters	Note on cylinder sizes: Unless otherwise	
	Concentration	QF/QB	UF/UB	← Cylinder Size		
	Range (c)	N ₂ , H ₂ , He	N ₂ , H ₂ , He	← Balance Gas	specified, cylinders will be provided as follows:	
	50 ppm ≤ c < 15%	208	35	← Content, cf (minimum, nominal)*		
	* Alesse inquire for evert cullinder content				All mixes >1%: QF/UF	

*please inquire for exact cylinder content



		Nominal Diameter (OD)xHeight*		Material of Construction	
Cylinder	Treatment	cm	Inches	Cylinder	Valve
QF	ULTRA-LINE®	9x51/52.5/56	23x130/134/143	CS	SS
QB	ULTRA-LINE II®	9x51/52.5/56	23x130/134/143	CS	SS
UF	ULTRA-LINE®	6x19/20.5/24	15x51/55/64	CS	SS
UB	ULTRA-LINE II®	6x19/20.5/24	15x51/55/64	CS	SS

*Height is reported as the distance from the bottom of the cylinder to the cylinder neck/ center of the valve outlet/ top of the handwheel CS: Carbon Steel SS: Stainless Steel

▲ WARNING: This product can expose you to chemicals including Carbon Monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

