Hydrogen Selenide

H_2Se

Grade	Solar 4N8
Purity, %	99.998
Carbon Dioxide	≤1 ppmv
Hydrogen Sulfide	≤10 ppmv
Nitrogen	≤5 ppmv
Oxygen	≤1 ppmv
Methane	≤1.0 ppmv
Water	≤1 ppmv

- All cylinders are individually analyzed.
- Pneumatic valves and JIS connections available upon request.

CYLINDER

Internal Volume	Liters	29.5	47.5
Cylinder Sizes >>		**QH**	**QZ**
Content	kg	25.0	45.0
	lbs	55.1	99.0
Change Point*	lbs	2.0	3.2

* Recommended Cylinder Change Point at NTP based on Phase Break, or the amount of product left in the cylinder when the liquid phase has completely evaporated and only the gaseous product is left (estimated on ideal gas behavior).

SHIP

DOT Shipping Name	Hydrogen Selenide	UN Number	UN 2202	Shipped as
DOT Classification	2.3 (2.1) Poison Gas	ECCN #	EAR99	Liquefied Gas
DOT Label	POISON GAS AND FLAMMABLE GAS	Harmonized #	2811.19.6090	

TECHNICAL DATA

Cylinder Pressure @NTP	125 psig 8.50 atm
Specific Volume @NTP	0.30 m^3/kg 4.78 ft^3/lb
CAS No	7783-07-5
CGA/DISS	350/632
Molecular Weight	80.98
TLV (ACGIH)	0.05 ppm

Vapor Pressure	Temp, °C	0.0	15.5	21.0	32.2	43.3
	Press, psig	61	96	108	132	149
	Temp, °F	32	60	70	90	110

RFO Data	Size, mm	0.254	0.3556	0.508	0.762	1.016
	Size, inches	0.010	0.014	0.020	0.030	0.040
	Flow, sccm	6,342	12,107	24,983	55,731	96,088
	Flow, scf/h	13.4	25.7	52.9	118.1	203.6

NTP = 21°C or 70°F and 101.3 kPa or 1 atm

Cylinder	Treatment	Nominal Diameter (OD)xHeight*		Material of Construction	
		cm	Inches	Cylinder	Valve
QH	ULTRA-LINE®	20x122/126/135	8x48/49.5/53	Aluminum	SS
QZ	ULTRA-LINE®	25x137/141/150	10x54/55.5/59	Aluminum	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
SS: Stainless Steel