Germane

GeH_4

Grade	Semicon 5N
Purity, %	99.999
Oxygen+ Argon	≤0.5 ppmv
Nitrogen	≤2.0 ppmv
Carbon Dioxide	≤2.0 ppmv
Carbon Monoxide	≤1.0 ppmv
Methane	≤1.0 ppmv
Water	≤1.0 ppmv
Chlorogermanes	≤5.0 ppmv
Digermane*	≤20.0 ppmv
Germoxanes	≤5.0 ppmv
Hydrogen*	≤50.0 ppmv
Trigermane	≤1.0 ppmv

*Not included in over-all purity analysis.
- A lot analysis is provided for each order – Individual analysis is also available upon request.
- Pneumatic valves, JIS connections available upon request.

CYLINDER

Internal Volume	Liters	29.5	17.1	7.3
Cylinder Sizes >>		**QH**	**GF**	**UF**
Content	kg	1	0.5	0.1
	lbs	2.2	1.1	0.22
Cylinder Pressure**	psig	160	118	45
	atm	12.3	9.3	5.3

** @ NTP

SHIP

DOT Shipping Name	Germane	UN Number	UN 2192	Shipped as
DOT Classification	2.3 (Toxic Gas)	ECCN #	EAR99	Compressed
DOT Label	TOXIC GAS, FLAMMABLE GAS	Harmonized #	2851.00.0000	Gas

TECHNICAL DATA

Specific Volume	0.32 m^3/kg
@NTP	5.1 ft^3/lb
CAS No	7782-65-2
CGA/DISS/JIS	350/632/W22-14L
Molecular Weight	76.62 g/mol

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

Critical Temperature	94.7°C	34.8°F
Critical Pressure	56.6 atm	805.3 psia

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	4257	8127	16769	37408	64497
	Flow, scf/h	9.0	17.2	35.5	79.3	136.7

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
GF	ULTRA-LINE®	23x66/70/79	9x26/27.5/31	CS	SS
UF	ULTRA-LINE®	15x51/55/64	6x19/20.5/24	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.

http://www.mathesongas.com

MATHESON
The Gas Professionals