Dichlorosilane

Grade	Semicon 2N		ULSI P	lus 3N	
Purity, %	99.0(w)	99.9(w)**			
Oxygen + Argon		≤1.0 ppmv			
Nitrogen		≤1.0 ppmv			
Carbon Dioxide		≤1.0 ppmv			
Carbon Monoxide			≤1.0	ppmv	
Methane			≤1.0	ppmv	
Hydrocarbons (C ₂ -C ₄)		≤1.0 ppmv			
Hydrogen Chloride			≤500	ppmw	
Monochlorosilane	≤0.3% w	≤250 ppmw			
Other Chlorosilanes	≤1% w				
Trichlorosilane		≤500 ppmw			
Silicon Tetrachloride		≤200 ppmw			
Resistivity, N-type, ohm-cm	> 200	> 400			
Individual Metals – Al*	≤1.0 ppbw	≤50 ppta			
As*	≤0.2 ppbw	≤50 ppta			
B*	≤0.1 ppbw	≤300 ppta			
P*	≤0.3 ppbw	≤300 ppta			
C*	≤1,000 ppbw	≤300 ppba			
Fe*	≤50 ppbw	≤2 ppbw			
		Ga*	≤10 ppta	Mn	≤0.2 ppbw
			≤10 ppta	Мо	≤0.2 ppbw
Additional Me	Additional Metals:			Ni	≤0.2 ppbw
	iais.	Cr	≤0.2 ppbw	Na	≤0.2 ppbw
		Cu	≤0.2 ppbw	Zn	≤0.2 ppbw
				0*	≤200 ppba

*Total deposited metals

**Total Purity excluding HCl

~	Internal Volume	Liters	43.8
/LINDER	Cylinder Sizes >	>	QF
	Content	kg	43.1
2	Content	lbs	93
	Change Point***	lbs	0.7

***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 gaseous product is left (estimate based on ideal gas behavior).

4	Cylinder Pressure	8.6 psig
TECHNICAL DATA	@NTP	1.7 atm
	Specific Volume	0.24 m³/kg
8	@NTP	3.83 ft³/lb
Ī	CAS No	4109-96-0
E E	CGA/DISS/JIS	678/636/W22-14L
F	Molecular Weight	101.01 g/mol

Vapor	Temp, °C	0.0	15.5	21.0	32.2	43.3
Vapor Pressure	Press, psig	-4.1	4.3	8.6	18.1	30.8
Pressure	Temp, °F	32	60	70	90	110
	Size, mm	0.254	0.3556	0.508	0.762	1.016
REO Data	Size, mm Size, inches	0.254 0.010	0.3556 0.014	0.508 0.020	0.762 0.030	1.016 0.040
RFO Data						

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

			Nominal Diameter (OD)xHeight*		Material of	Construction
Су	linder	Treatment	cm	Inches	Cylinder	Valve
	QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	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

 Δ 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



SiH₂Cl₂

• A lot analysis is provided for each order.

• Individual analysis is also available upon request.

• Pneumatic valves and JIS connections are available upon request.

	UN Number	UN 2189
	DOT Shipping Name	Dichlorosilane
SHIP	DOT Classification	2.3 (Poison Gas)
R	DOT Label	POISON GAS, FLAMMABLE GAS
	ECCN #	EAR99
	Harmonized #	2827.39.9050