

# Methyl Silane



Grade	Semicon 3N8
Purity, %	99.98
Oxygen+ Argon	≤10 ppmv
Carbon Dioxide	≤2 ppmv
Methane	≤10 ppmv
Silane	≤50 ppmv
Other Methylsilanes*	≤50 ppmv
Chlorosilanes	≤50 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	7.3	2.3	0.44
	<b>Cylinder Sizes &gt;&gt;</b>		<b>UF</b>	<b>JF</b>	<b>SF</b>
	Content	kg	1.45	0.7	0.1
		lbs	3.2	1.54	0.22
	Change Point*	lbs	0.47	0.15	0.03

\*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).

SHIP	DOT Shipping Name	Compressed Gas Flammable, NOS (Methylsilane)	Shipped as
	DOT Classification	2.1 (Flammable Gas)	Liquefied Gas
	DOT Label	LIQUEFIED GAS FLAMMABLE	
	UN Number	UN 3161	

TECHNICAL DATA	Cylinder Pressure @NTP	193 psig 14.5 atm
	Specific Volume @NTP	0.523 m <sup>3</sup> /kg 8.37 ft <sup>3</sup> /lb
	CAS No	992-94-9
	CGA/DISS/JIS	350/632
	Molecular Weight	46.14 g/mol

Critical Temperature	79.3°C	174.7°F
Vapor Pressure @20°C	14.5 atm	193 psig

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	7091	13537	27934	62315	107440
	Flow, scf/h	15	29	59	132	228

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
UF	ULTRA-LINE®	15x51/55/64	6x19/20.5/24	CS	SS
JF	ULTRA-LINE®	10x33/37/46	4x13/14.5/18	CS	SS
SF	ULTRA-LINE®	5x30/34/43	2x12/13.5/17	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

