

# Halocarbon 41 (Methyl Fluoride)



Grade	Semicon 4N	ULSI 4N5
Purity, %	99.99	99.995
Oxygen	≤20 ppmv	< 5 ppmv
Nitrogen	≤70 ppmv	< 20 ppmv
Carbon Dioxide		< 10 ppmv
Carbon Monoxide		< 10 ppmv
Methane		< 5 ppmv
Water	≤10 ppmv	< 2 ppmv
Acidity as HF		Please Inquire

- A lot analysis is provided for each order. – Individual analysis is also available upon request.
- Pneumatic valves and JIS connections are available upon request.

CYLINDER	Internal Volume	Liters	43.8	17.1	7.3
	<b>Cylinder Sizes &gt;&gt;</b>		<b>QF</b>	<b>GF</b>	<b>UF</b>
	Content	lbs	18	7	3
		kg	8.2	3.2	1.4
	Change Point*	lbs	8.4	3.3	1.4

\*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	Methyl Fluoride	UN Number	UN 2810	Shipped as
	DOT Classification	2.1 (Flammable Gas)	ECCN #	EAR99	Liquefied
	DOT Label	FLAMMABLE GAS	Harmonized #	2903.30.2050	Gas

TECHNICAL DATA	Cylinder Pressure @NTP	538 psig 38.85 atm
	Specific Volume @NTP	0.71 m <sup>3</sup> /kg 11.36 ft <sup>3</sup> /lb
	CAS No	593-53-3
	CGA/DISS/JIS	350/724/W22-14L
	Molecular Weight	34 g/mol

Vapor Pressure	Temp, °C	0.0	15.5	21.0	32.2	43.3
	Press, psig	259	398	538	606	790
	Temp, °F	32	60	70	90	110

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
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	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



**MATHESON**

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