

# Methane



Grade	Semicon 4N	ULSI 5N
Purity, %	99.99	99.999
Oxygen	≤10 ppmv	≤1 ppmv
Nitrogen	≤60 ppmv	≤4 ppmv
Carbon Dioxide	≤3 ppmv	≤2 ppmv
Carbon Monoxide	≤1 ppmv	≤1 ppmv
Water	≤3 ppmv	≤1 ppmv
Ethane	≤20 ppmv	≤3 ppmv
Ethylene	≤1 ppmv	≤1 ppmv
Hydrogen	≤1 ppmv	≤1 ppmv
Propane	≤1 ppmv	≤1 ppmv
Propylene	≤1 ppmv	≤1 ppmv

- 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
	<b>Cylinder Sizes &gt;&gt;</b>		<b>QF/QA/QB</b>	<b>GF/GA</b>
	Content	Liters	8,100	2,830
		ft <sup>3</sup>	286	100
	Cylinder Pressure*	psig	2,265	2,000
atm		160.3	141.6	

\* @ NTP

SHIP	DOT Shipping Name	Methane, Compressed	UN Number	UN 1971	Shipped as
	DOT Classification	2.1 (Flammable Gas)	ECCN #	1C983	Compressed Gas
	DOT Label	FLAMMABLE GAS	Harmonized #	2901.10.6000	

TECHNICAL DATA	Specific Volume	1.48 m <sup>3</sup> /kg
	@NTP	23.7 ft <sup>3</sup> /lb
	CAS No	74-82-0
	CGA/DISS/JIS	350/724
	Molecular Weight	16.04 g/mol

Critical Temperature	-116.6°C	-182.5°F
Critical Pressure	49 atm	667.7 psia

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
QA	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	Brass
QB	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	CS	SS
GF	ULTRA-LINE®	23x66/70/79	9x26/27.5/31	CS	SS
GA	ULTRA-LINE®	23x66/70/79	9x26/27.5/31	CS	Brass

\*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.P65Warnings.ca.gov).



**MATHESON**

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