

# Ethylene



Grade	USLI 4N5	ULSI 5N	ULSI 5N5
Purity, %	99.995	99.999	99.9995
Oxygen	≤2 ppmv	≤2 ppmv	≤1 ppmv
Nitrogen	≤5 ppmv	≤2 ppmv	≤1 ppmv
Carbon Monoxide	≤2 ppmv	≤2 ppmv	≤1 ppmv
Carbon Dioxide	≤5 ppmv	≤2 ppmv	≤1 ppmv
Water	≤5 ppmv	≤3 ppmv	≤1 ppmv
Total Impurities	≤50 ppmw	≤10 ppmw	≤5 ppmw
Other Hydrocarbons	≤40 ppmv	≤8 ppmv	≤4 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
	<b>Cylinder Sizes &gt;&gt;</b>		<b>QF</b>
	Content	lbs	30
		kg	13.6

\*@ 21°C

SHIP	DOT Shipping Name	Ethylene	UN Number	UN 1962	Shipped as
	DOT Classification	2.1 (Flammable Gas)	ECCN #	1C982	Compressed
	DOT Label	FLAMMABLE GAS	Harmonized #	2711.11.0000	Gas

TECHNICAL DATA	Cylinder Pressure @NTP	1200 psig 81.6 atm
	Specific Volume @NTP	0.793 kg/m <sup>3</sup> @ 0° C 12.7 ft <sup>3</sup> /lb @ 32° F
	CAS No	74-85-1
	DISS/JIS	724/22-14L
	Molecular Weight	28.05

Critical Temperature	9.2° C	45.6° F
Critical Pressure	49.66 atm	729.83 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

\*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: Steel Alloy SS: Stainless Steel

\*\*Height is reported as the distance from the bottom of the cylinder to the cylinder neck/ top of the cylinder collar



**MATHESON**

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