Ethylene

C_2H_4

Grade	ULSI 5N	ULSI 5N5	Metals, ppbw	
Purity, %	99.999	99.9995	ULSI PLUS	
Oxygen	≤1 ppmv	≤1 ppmw	Na	≤5 ppbw
Nitrogen	≤3 ppmv	≤1 ppmw	Mg	≤0.5 ppbw
Carbon Dioxide	≤2 ppmv	≤1 ppmw	Al	≤5 ppbw
Carbon Monoxide	≤2 ppmv	≤1 ppmw	P	≤2 ppbw
Acetylene	≤2 ppmv	≤1 ppmw	Cr	≤2 ppbw
Water	≤3 ppmv	≤1 ppmw	Mn	≤2 ppbw
Total Impurities	≤10 ppmw	≤5 ppmw	Fe	≤3.5 ppbw
Other Hydrocarbons	≤6 ppmv	≤3 ppbw	Ni	≤1 ppbw
			Se	≤2 ppbw
			Zn	≤1.0 ppbw

• 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	
Cylinder Sizes >>		QF	
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 #	2711.14.10	Gas	

TECHNICAL DATA		
Cylinder Pressure	1200 psig	
@NTP	81.6 atm	
Specific Volume	0.793 kg/m³ @ 0° C	
@NTP	12.7 ft³/lb @ 32° F	
CAS No	74-85-1	
DISS/CGA	724/350	
Molecular Weight	28.05	

Critical Temperature	9.2° C	49° 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

⚠ 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.

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