

Carbon Monoxide

CO

Grade	ULSI 3N5	ULSI PLUS 4N5				
Purity, %	99.95	99.995	Metals, ppbw			
Oxygen	≤100 ppmv	≤6 ppmv	Al	≤1	Mn	≤1
Nitrogen	≤250 ppmv	≤10 ppmv	Cd	≤1	Ni	≤1
Carbon Dioxide	≤50 ppmv	≤15 ppmv	Ca	≤1	Mg	≤1
Total Hydrocarbons	≤3 ppmv		Cr	≤1	K	≤2
Methane		≤3 ppmv	Cu	≤1	Na	≤5
Water	≤3 ppmv	≤1 ppmv	Fe	≤5	Zn	≤1
Iron Pentacarbonyl	≤1 ppmv	≤0.5 ppmv	Pb	≤1		
Hydrogen		≤1 ppmv				

- A lot analysis is provided for each order. – Individual analysis is also available upon request.
- For gas phase impurities, a metal analysis is performed periodically.
- Pneumatic valves and JIS connections are available upon request.

NOTE: Aluminum cylinders with brass valves are the recommended package for CO. ULSI PLUS will only be provided in a QY package.

CYLINDER	Internal Volume	Liters	46.4	43.8	29.5
	Cylinder Sizes >>		QY	QB	QH/QX
	Content	m ³	6.9	4.96	3.3
		ft ³	244	175	118
	Cylinder Pressure*	psig	2,216	1,650	1,650

* @ NTP

SHIP	DOT Shipping Name	Carbon Monoxide, compressed	UN Number	UN 1016	Shipped as
	DOT Classification	2.3 Poison Gas Hazard Zone D (Gas Poisonous by Inhalation)	ECCN #	1C980	Compressed Gas
	DOT Label	INHALATION HAZARD FLAMMABLE GAS	Harmonized #	2811.29.0000	

TECHNICAL DATA	Specific Volume	0.86 m ³ /kg
	@NTP	13.8 ft ³ /lb
	CAS No	630-08-0
	CGA/DISS/JIS	350/724/W22-14L
	Molecular Weight	28.01 g/mol

Critical Temperature	-140.2°C	-220.4°F
Critical Pressure	35.7 atm	507.5 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
QY	ULTRA-LINE®	25x132/136/145	10x52/53.5/57	Aluminum	SS/Brass
QB	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	CS	SS
QH/QX	ULTRA-LINE®	20x122/126/135	8x48/49.5/53	Aluminum	SS/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



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