

# Carbonyl Sulfide

# COS

Grade	Semicon 3N	ULSI 4N	ULSI PLUS 4N		
Purity, %	99.9	99.99	99.99	Metals	
Nitrogen	< 300 ppmv	< 20 ppmv	< 20 ppmv	Fe	< 1.0 ppbw
Oxygen	< 100 ppmv	< 10 ppmv	< 10 ppmv	Ni	< 1.0 ppbw
Carbon Monoxide	< 100 ppmv	< 10 ppmv	< 10 ppmv	Al	< 1.0 ppbw
Carbon Dioxide	< 300 ppmv	< 20 ppmv	< 20 ppmv	Ca	< 1.0 ppbw
Methane		< 5 ppmv	< 5 ppmv	Cd	< 1.0 ppbw
Hydrogen Sulfide	< 100 ppmv	< 10 ppmv	< 10 ppmv	Co	< 1.0 ppbw
Water	< 100 ppmv	< 10 ppmv	< 10 ppmv	Cr	< 1.0 ppbw
				Cu	< 1.0 ppbw
				K	< 1.0 ppbw
				Li	< 1.0 ppbw
				Mg	< 1.0 ppbw
				Mn	< 1.0 ppbw
				Mo	< 1.0 ppbw
				Na	< 1.0 ppbw
				Pb	< 1.0 ppbw
				Zn	< 1.0 ppbw

- A lot analysis is provided for each order.
- Pneumatic valves available upon request..

CYLINDER	Internal Volume	Liters	43.8
	<b>Cylinder Sizes &gt;&gt;</b>		<b>QF</b>
	Content	lbs	55
		kg	25

SHIP	DOT Shipping Name	Carbonyl Sulfide	UN Number	UN 2204	Shipped as
	DOT Classification	2.3, 2.1	ECCN #	EAR99	Liquefied
	DOT Label	POISON GAS, FLAMMABLE GAS	Harmonized #	2853.00.0095	Gas

TECHNICAL DATA	Cylinder Pressure	152.52 psig
	@NTP	11.38
	Specific Volume	0.402 m <sup>3</sup> /kg
	@NTP	6.44 ft <sup>3</sup> /lb
	CAS No	463-58-1
	CGA/DISS/JIS	330/722
Molecular Weight	60.08 g/mol	

Critical Temperature	106°C	222°F
Critical Pressure	63 atm	921 psia

NTP = 21°C or 70°F and 101.3 kPa or 1 atm

\*Brass Valve

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: 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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