

Propylene



Grade	Semicon 3N7	ULSI 4N	ULSI 4N5	ULSI PLUS* Metals, ppbw		
Purity, %	99.97	99.99	99.995		4N	4N5
Oxygen	≤2 ppmv	≤1 ppmv	≤1 ppmv	Na	≤9 ppbw	≤5 ppbw
Nitrogen	≤10 ppmv	≤5 ppmv	≤2 ppmv	Mg	≤1 ppbw	≤0.5 ppbw
Carbon Dioxide	≤1 ppmv	≤1 ppmv	≤1 ppmv	Al	≤7 ppbw	≤5 ppbw
Water	≤3 ppmv	≤2 ppmv	≤1 ppmv	P	≤5 ppbw	≤2 ppbw
Sulfur		≤1 ppmw	≤1 ppmw	Cr	≤3 ppbw	≤2 ppbw
Propane	≤260 ppmv	≤90 ppmv	≤45 ppmv	Mn	≤3 ppbw	≤2 ppbw
Other Hydrocarbons		≤10 ppmv	≤5 ppmv	Fe	≤5 ppbw	≤3.5 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.

Ni	≤5 ppbw	≤1 ppbw
Se	≤5 ppbw	≤2 ppbw
Zn	≤5 ppbw	≤0.1 ppbw
V		≤1.5 ppbw
Co		≤0.5 ppbw
Ga		≤1.5 ppbw
Ge		≤1 ppbw
As		≤1 ppbw
Sn		≤2 ppbw
Ce		≤0.5 ppbw
Hf		≤0.2 ppbw

*ULSI PLUS is available for 4N and 4N5

CYLINDER	Internal Volume	Liters	43.8	454
	Cylinder Sizes >>		QF	XP
	Content	kg	18.2	195
		lbs	40	429
	Change Point*	lbs	2.2	23.8

* @ 21°C

**Recommended Cylinder Change Point, based on Phase Break, or the amount of product left in the cylinder when the liquid phase has completely evaporated and only gaseous product is left (estimate based on ideal gas behavior).

SHIP	DOT Shipping Name	Propylene	UN Number	UN 1077	Shipped as
	DOT Classification	2.1 (Flammable Gas)	ECCN #	NPR-EAR99	Liquefied
	DOT Label	FLAMMABLE GAS	Harmonized #	2901-22-0000	Gas

TECHNICAL DATA	Cylinder Pressure	136.6 psig
	@NTP	10.6 atm
	Specific Volume	0.587 m ³ /kg
	@NTP	9.4 ft ³ /lb
	CAS No	115-07-1
	CGA/DISS/JIS	510*/724/22-14L
Molecular Weight	42.08 g/mol	

*Brass Valve

Critical Temperature	91.8°C	197.2°F
Critical Pressure	45.6 atm	648.6 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
XP	ULTRA-LINE®	75.2x128/146	29.6x50.4/57.5**	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

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



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