Grade	Semicon 4N5	ULSI 5N	ULSI PLUS 5N					
Purity, %	99.995	99.999	99.999	Metals, p		, ppbw	ppbw	
Oxygen	≤4.0 ppmv	≤1.0 ppmv	≤1.0 ppmv	Cd	≤5	Pb	≤50	
Nitrogen	≤10.0 ppmv	≤2.0 ppmv	≤2.0 ppmv	Cr	≤400	Zn	≤50	
Carbon Dioxide	≤10.0 ppmv	≤4.0 ppmv	≤4.0 ppmv	Cu ≤100				
Carbon Monoxide		≤1.0 ppmv	≤1.0 ppmv	Fe ≤500				
Methane	≤2.0 ppmv	≤1.0 ppmv	≤1.0 ppmv					
Water	≤10.0 ppmv	≤1.0 ppmv	≤1.0 ppmv	Total Metals: ≤		≤1,(000	
Iron (Fe)		≤0.5 ppmw						

- A lot analysis is provided for each order Individual analysis is also available upon request.
- Pneumatic valves, JIS connections available upon request.

	Internal Volume	Liters	439	49	43.8
Cylinder Sizes >>			QI	QK	QB/QF
CYLINDER	Content	kg	272.7	29.55	25.0
	Content	lbs	600	65	55
	Change Point*	lbs	67.8	7.6	6.8

^{*}Recommended Cylinder Change Point at NTP, 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).

	DOT Shipping Name	Hydrogen Chloride, Anhydrous			UN Nu	mber	UN 1050		Shipped as	
	DOT Classification	2.3 Poison Gas Hazard Zone C			ECCN#		EAR99			
SHP	DOT Classification	(Gas Poisonous by Inhalation)							Liquefied Gas	
	DOT Label	POISON GAS INHALATION HAZARD			Harmonized # 2806.10.0000		0000			
	DOT Label	CORROSIVE GAS		Hailion	1260 #	2000.10	5.0000			
	Cylinder Pressure	613 psig	.,	Ten	np, °C	0.0	15.5	21.0	32.2	43.3

	Cylinder Pressure	613 psig				
<u>∀</u>	@NTP	44.1 atm				
PA	Specific Volume	0.662 m³/kg				
Ä	@NTP	10.6 ft ³ /lb				
	CAS No	7647-01-0				
뒤	CGA/DISS/JIS	330/634/W26-14R				
_	Molecular Weight	36.46 g/mol				
	TLV	5 ppm				
		· · · · · · · · · · · · · · · · · · ·				

Vapor Pressure	,	0.0			U	.0.0		
	Press, psig	360	540	613	799	1020		
riessule	Temp, °F	32	60	70	90	110		
	Size, mm	0.254	0.3556	0.508	0.762	1.016		
RFO Data	Size, inches	0.010	0.014	0.020	0.030	0.040		
	Flow, sccm	22157	42300	87285	194713	335713		
	Flow, scf/h	47	90	185	413	711		

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

		Nominal Diamet	er (OD)xHeight*	Material of Construction		
Cylinder	Treatment	cm	Inches	Cylinder	Valve	
QI	ULTRA-LINE®	61x211	24x83	CS	Hst/SS	
QK	ULTRA-LINE®	23.5x140/144/153	9.25x55/56.5/60	CS	Hst	
QB	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	CS	Hst	
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	Hst	

^{*}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 ASB: Aluminum Silicon Bronze Hst: Hastalloy

△ 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.

