Grade	ULSI 5N		Gigab	it 5N5		
Purity, %	99.999	99.9995	.9995 Metals, ppbw			
Oxygen	≤1.0 ppmv	≤1.0 ppmv	Al	≤5	Mg	≤1
Nitrogen	≤3.0 ppmv	≤1.0 ppmv	Ca	≤5	Na	≤5
Carbon Dioxide	≤3.0 ppmv	≤1.0 ppmv	Cr	≤5	Ni	≤10
Carbon Monoxide	≤0.5 ppmv	≤0.5 ppmv	Cu	≤1	Pb	≤1
Methane	≤1.5 ppmv	≤1.0 ppmv	Fe	≤10	Zn	≤1
Water	≤4.0 ppmv	≤1.0 ppmv	Mn	≤1	Co	≤1
Hydrogen Chloride*		≤50 ppmv				
Hydrogen*		≤50 ppmv				

[•] A lot analysis is provided for each order. – Individual analysis is also available upon request.

^{*}Not included in Assay calculation

	Internal Volume	Liters	43.8
JER .	Cylinder Sizes >>	QN	
CYLINDER	Content	kg	54.55
	Content	lbs	130
	Change Point*	lbs	11.0

^{*}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 Bromide, Anhydrous	UN Number	UN 1048	Shipped as
	DOT Classification	2.3 Poison Gas Hazard Zone C	ECCN#	EAR99	
	DOT Glassification	(Gas Poisonous by Inhalation)	LOON #		Liquefied
	DOT Label	POISON GAS INHALATION HAZARD	Harmonized #	2811.19.0000	Gas
		CORROSIVE GAS	riaimonizeu #	2011.19.0000	

Vapor

Temp, °C

	Cylinder Pressure	320 psig		
4	@NTP	23.5 atm		
TECHNICAL DATA	Specific Volume	0.3 m³/kg		
	@NTP	4.8 ft ³ /lb		
	CAS No	10035-10-6		
	CGA/DISS/JIS	330/634/W22-14L		
	Molecular Weight	80.91		
	TLV	3 ppm		

vapor Pressure	Press, psig	173	269	320	405	517
	Temp, °F	32	60	70	90	110
RFO Data	Size, mm	0.254	0.3556	0.508	0.762	1.016
	Size, inches	0.010	0.014	0.020	0.030	0.040
	Flow, sccm	7950	15177	31317	69862	120451
	Flow, scf/h	17	32	66	148	255

0.0

15.5

21.0

32.2

43.3

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
QN	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS/Ni-lined	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 Hst: Hastelloy

△ 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.



[•] Pneumatic valves, JIS connections available upon request.