Grade	Semicon 4N5		
Purity, %	99.995*		
Sulfuric acid	≤25 ppmv		
Sulfur Dioxide	≤15 ppmv		
Hexafluorosilicilic Acid	≤15 ppmv		

<sup>\*</sup> Inert gases may be found in considerable concentration, as it is used to package the product as sold: please inquire if this represents a concern

<sup>•</sup> Pneumatic valves available upon request.

	Internal Volume	Liters	43.8	17.1	7.3
JER	Cylinder Sizes >>	QF	GF	UF	
'LINDER	Content	kg	22.7	11.36	1.82
5	Content	lbs	50	25	4
	Change Point*	lbs	0.1	0.035	0.015

<sup>\*</sup>Recommended Cylinder Change Point @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 Fluoride, Anhydrous	UN Number	UN 1052	Shipped as
	DOT Classification	8 Poison Gas Hazard Zone C	ECCN#	1C350	
툸		(Gas Poisonous by Inhalation)	LOON#		Liquefied
	DOT Label	POISON GAS INHALATION HAZARD	Harmonized #	2811.11.0000	Gas
		POISON CORROSIVE	riaimonizeu #	2011.11.0000	

	Cylinder Pressure	0.7 psig	
4	@NTP	1.07 atm	
DAT	Specific Volume	1.20 m³/kg	
TECHNICAL DATA	@NTP	19.3 ft <sup>3</sup> /lb	
	CAS No	7664-39-3	
	CGA/DISS	660/638	
	Molecular Weight	20.01	
	TLV	3 ppm	

vapor	· ·					
Pressure	Press, psig	-7.7	-2.0	0.7	7.9	17.5
i iessuie	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	729	1391	2871	6405	11043

0.0 | 15.5 | 21.0 | 32.2 | 43.3

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

Flow, scf/h

		Nominal Diameter (OD)xHeight*		Material of	Construction
Cylinder	Treatment	cm	Inches	Cylinder	Valve
QF	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	SS
GF	ULTRA-LINE®	23x66/70/79	9x26/27.5/31	CS	SS
UF	ULTRA-LINE®	15x51/55/64	6x19/20.5/24	CS	SS

<sup>\*</sup>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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<sup>•</sup> A lot analysis is provided for each order.

<sup>△</sup> WARNING: This product can expose you to chemicals including Sulfur Dioxide, 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.

<sup>&</sup>lt;u>MARNING</u>: This product can expose you to chemicals including Strong inorganic acid mists containing sulfuric acid, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.