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
)ER	Cylinder Sizes >>	QF	GF	UF	
CYLINDER	Content	kg	22.7	11.36	1.82
		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  DOT Label	DOT Classification	8 Poison Gas Hazard Zone C	ECCN#	1C350	
	(Gas Poisonous by Inhalation)	LOON#	10330	Liquefied	
	DOT Label	POISON GAS INHALATION HAZARD	Harmonized #	2811 11 0000	Gas
	DOT Label	POISON CORROSIVE	riaiiiioiii2eu #	2011.11.0000	

TECHNICAL DATA	Cylinder Pressure	0.7 psig		
	@NTP	1.07 atm		
	Specific Volume	1.20 m³/kg		
	@NTP	19.3 ft³/lb		
	CAS No	7664-39-3		
	CGA/DISS	660/638		
	Molecular Weight	20.01		
	TLV	3 ppm		

Vapor Pressure	Temp, °C	0.0	15.5	21.0	32.2	43.3
	Press, psig	-7.7	-2.0	0.7	7.9	17.5
	Temp, °F	32	60	70	90	110
	Size, mm	0.254	0.3556	0.508	0.762	1.016

	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
RFO Data	Flow, sccm	729	1391	2871	6405	11043
	Flow, scf/h	2	3	6	14	23

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

		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

△ WARNING: 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.



<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.