Halocarbon 32 (Difluoromethane) CH_2F_2

Grade	ULSI 4N	ULTIMA 4N8
Purity, %	99.99	99.998
Nitrogen	≤40 ppmv	≤5 ppmv
Oxygen	≤10 ppmv	≤2 ppmv
Carbon Dioxide	≤15 ppmv	≤1 ppmv
Methane	≤2 ppmv	≤1 ppmv
Water	≤5 ppmv	≤1 ppmv
Carbon Tetrafluoride	≤5 ppmv	≤1 ppmv
Other Organics	≤100 ppmv	≤10 ppmv
Carbon Monoxide		≤1 ppmv
Acidity as HF		≤0.1 ppmw

- A lot analysis is provided for each order – Individual analysis is also available upon request.
- Other Organics = H_{12}, H_{22}, H_{23}, H_{134a}

CYLINDER

Internal Volume	Liters	43.8	17.1	7.3
Cylinder Sizes >>		**QF**	**GF**	**UF**
Content	lbs	64	25	11
	kg	29.1	11.35	5
Change Point*	lbs	4.3	1.7	0.7

*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).

SHIP

DOT Shipping Name	Difluoromethane	Shipped as
DOT Classification	2.1 (Flammable Gas)	Liquefied Gas
DOT Label	FLAMMABLE GAS	
UN Number	UN 3252	

TECHNICAL DATA

Cylinder Pressure @NTP	207 psig 15.6 atm
Specific Volume @NTP	0.45 m^3/kg 7.2 ft^3/lb
CAS No	75-10-5
CGA/DISS/JIS	350/724/W22-14L
Molecular Weight	52 g/mol

Vapor Pressure	Temp, °C	0.0	15.5	21.0	32.2	43.3
	Press, psig	102	172	207	279	372
	Temp, °F	32	60	70	90	110

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
GF	ULTRA-LINE®	23x66/70/79	9x26/27.5/31	CS	SS
UF	ULTRA-LINE®	15x51/55/64	6x19/20.5/24	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

⚠ 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.