

Halocarbon 116 (Hexafluoroethane)



Grade	ULSI 5N	ULSI Plus 5N
Purity, %	99.999	99.999
Oxygen		≤2.0 ppmv
Oxygen + Nitrogen + Carbon Dioxide + Carbon Monoxide	≤25 ppmv	
Nitrogen		≤8.0 ppmv
Carbon Dioxide		≤0.5 ppmv
Carbon Monoxide		≤0.5 ppmv
Water	≤5 ppmv	≤1.5 ppmv
Other organics		≤0.5 ppmv
Acidity as HCl	≤0.1 ppmw	≤0.1 ppmw

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

CYLINDER	Internal Volume	Liters	43.8
	Cylinder Sizes >>		QF/QA/QB
	Content	lbs	95
		kg	43.18
	Change Point*	lbs	19.1

*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	Hexafluoroethane Compressed	UN Number	UN 2193	Shipped as
	DOT Classification	2.2 (Non-Flammable Gas)	ECCN #	EAR99	Liquefied
	DOT Label	NON-FLAMMABLE GAS	Harmonized #	2903.30.2010	Gas

TECHNICAL DATA	Cylinder Pressure	680 psig
	@NTP	45.0 atm
	Specific Volume	0.174 m ³ /kg
	@NTP	2.8 ft ³ /lb
	CAS No	76-16-4
	CGA/DISS/JIS	660/716/W22-14L
Molecular Weight	138.01 g/mol	

Critical Temperature	19.7°C	67.5°F
Critical Pressure	30.37 atm	431 psia

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
QA	ULTRA-LINE®	23x130/134/143	9x51/52.5/56	CS	Brass
QB	ULTRA-LINE II®	23x130/134/143	9x51/52.5/56	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



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