

**HFC-125**

Chemical Name: 1,1,1,2,2-Pentafluoroethane

Specification

Item	Shanghai Waysmos	NFPA 2001
Appearance	Colorless liquefied gas	Colorless liquefied gas
Assay by GC	99.8%(min)	99.0%(min)
Moisture	10 ppm(max)	10 ppm(max)
Acidity as HF	1 ppm(max)	3 ppm(max)
Non-volatile Residue	0.01g/100ml(max)	0.05g/100ml(max)

Character

Clean and insulative

Good efficient and no residue

No depleting ozone layer in atmosphere

An environment acceptable replacement for Halon 1301

Properties

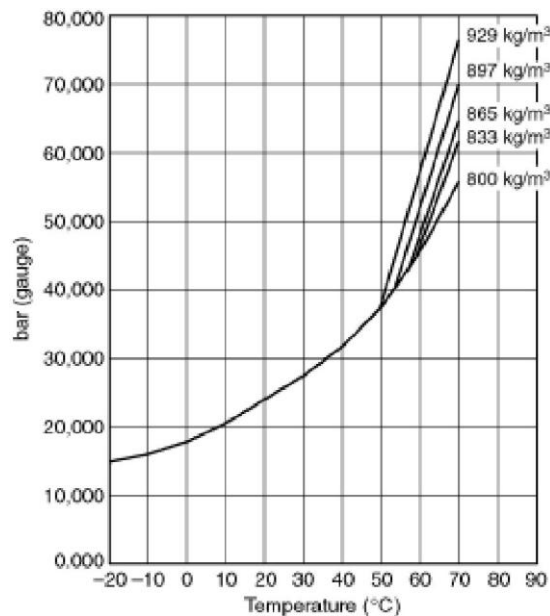
Empirical Formula	CF ₃ -CHF ₂
CAS Number	354-33-6
Molecular Weight	120.02
Boiling Point	-48.5°C
Freezing Point	-103°C
Vapor Pressure(25°C)	1310KPa
Liquid Density (25°C)	1.19Kg/L
Critical Temperature	66.3°C
Critical Pressure	3595KPa
Critical Density	572Kg/m ³
Extinguish Concentration (Cup)	8.7%

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NOAEL (V/V)	7.5%
LOAEL(V/V)	10%
LC ₅₀ or ALC(V/V)	70%
Ozone Depleting Potential	0
Atmospheric Lifetime	29 years

Gas Filling Curve

Isometric diagram of HFC-125 pressurized with N₂ to 24.82 bar, gauge at 22°C.



Application

HFC-125 is an environment acceptable replacement for Halon 1301. It is used in total flooding applications for protecting particularly high value assets, where water, dry chemicals and others can cause collateral damage to assets. Examples of the applications include semiconductor manufacturing facilities, chemical storage rooms, petrochemical facilities and so on.