

# FORANE® 507A

CAS No 354-33-6 (HFC-125) / 420-46-2 (HFC-143a)

Pentafluoroethane (HFC-125) / 1,1,1-Trifluoroethane (HFC-143a)

## GENERAL DESCRIPTION

An azeotropic HFC refrigerant blend for medium to low temperature refrigerant applications.

## SPECIFICATIONS

(Meets AHRI 700-2017 Specifications)

	Maximum (unless otherwise indicated)	Tolerance
Pentafluoroethane (HFC-125), wt %	50.0 (nominal)	-0.5%/+1.5%
Trifluoroethane (HFC-143a), wt %	50.0 (nominal)	-1.5%/+0.5%
Air and Other Non-condensable Gases, vol %	1.5	
Volatile Impurities, wt %	0.5	
High Boiling Residue, vol %	0.01	
Moisture (H <sub>2</sub> O), ppm by wt	10	
Acidity, ppm by wt (as HCl)	1.0	
Chloride, no visible turbidity (indicates about 3 ppm)	Pass	
Particulates / solids (visually clean to pass)	Pass	

## PROPERTIES

Appearance	Colorless liquefied gas
Odor	Faint, ether-like odor
Molecular Mass (g/mole of blend)	98.86
Bubble Point at 1 atm	-52.1°F / -46.7°C
Dew Point at 1 atm	-52.1°F / -46.7°C
Flammable Limits (LFL, UFL), vol % (1 atm, 25°C)	NA / NA
ANSI/ASHRAE Standard 34 Safety Group Classification	A1
Ozone Depletion Potential (ODP) (CFC-11 = 1.0)	0
Global Warming Potential (GWP <sup>(1)</sup> ) (CO <sub>2</sub> = 1.0)	3,985

(1) GWP according to IPCC AR5. Values for 100-year time horizon

## TEMPERATURE

	50°F	70°F	105°F	115°F	130°F
Vapor Pressure, psia <sup>(2)</sup>	122.6	167.5	274.6	312.9	378.2
Liquid Density, lb./ft <sup>3</sup> (2)	69.7	66.6	60.1	57.8	53.8

(2) Generated using NIST REFPROP Version 9.1

## Forane® Customer Service: 1-800-245-5858

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