Arkema Inc.
900 First Avenue
King of Prussia, PA 19406

FORANE® 407A
DIFLUOROMETHANE (HFC-32) / PENTAFLUOROETHANE (HFC-125) / 1,1,1,2-TETRAFLUOROETHANE (HFC-134a)

GENERAL DESCRIPTION

A zero ODP zeotropic HFC blend which closely matches the properties of R-22. It can be used in many A/C and refrigeration applications in new or retrofitted R-22 installations. Polyolester lubricants should be used with R-407A due to immiscibility with mineral oil or alkylbenzene.

SPECIFICATIONS

(Meets AHRI 700-2011 Specifications)

	Maximum (unless otherwise indicated)	Tolerance
Difluoromethane (HFC-32), wt %	20.0 (nominal)	± 2%
Pentafluoroethane (HFC-125), wt %	40.0 (nominal)	± 2%
1,1,1,2-Tetrafluoroethane (HFC-134a), wt %	40.0 (nominal)	± 2%
Air and Other Non-condensable Gases, vol %	1.5	
Volatile Impurities, wt %	0.5	
High Boiling Residue, vol %	0.01	
Moisture (H_2O), 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)	86.20
Bubble point at 1 atm	-45.3℉ / -49.5℃
Dew Point at 1 atm	-38.9℉ / -38.0℃
Flammable Limits (LFL, UFL), vol % (1 atm, 25°C)	Not Applicable
ANSI/ASHRAE Standard 34 Safety Group Classification	A1
Ozone Depletion Potential (ODP) (CFC-11 = 1.0)	0
Global Warming Potential (GWP) (CO_2 = 1.0) (100 year)	2,100

Temperature	50℉	70℉	105℉	115℉	130℉
Vapor Pressure, psia[(1)]	100.8	141.7	242.1	278.8	341.8
Liquid Density, lb./ft^3[(1)]	75.5	72.6	66.6	64.7	61.4

(1) generated using NIST REFPROP Version 9.0

CAS Number: 75-10-5 (HFC-32) / 354-33-6 (HFC-125) / 811-97-2 (HFC-134a)

Customer Service: 1.800.245.5858

June 11, 2012

BEFORE HANDLING THIS MATERIAL, READ AND UNDERSTAND THE MSDS (MATERIAL SAFETY DATA SHEET) FOR ADDITIONAL INFORMATION ON PERSONAL PROTECTIVE EQUIPMENT AND FOR SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION.