



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

or Lon IoAriono		
(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 ₂ 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		
Annearance	Colorless liquefied ass	

PRO

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	<u>50℉</u>	<u>70℉</u>	<u>105℉</u>	<u>115℉</u>	<u>130℉</u>
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 REFPRO	P 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.

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control. Arkema Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein should be taken as an inducement to infringe any patient and the user is advised to take appropriate steps to be assured that any proposed use of the product will not result in patent infringement.