

FORANE® 410A DIFLUOROMETHANE (HFC-32) / PENTAFLUOROETHANE (HFC-125)

GENERAL DESCRIPTION

Near azeotropic HFC blend with a zero ODP designed to replace R-22 in many applications such as unitary A/C, chillers, and some refrigeration. It operates at a much higher pressure and capacity than R-22. Equipment, therefore, must be designed to handle R-410A.

SPECIFICATIONS

(Meets AHRI 700-2011 Specifications)	Maximum	
	(unless otherwise indicated)	<u>Tolerance</u>
Difluoromethane (HFC-32), wt %	50.0 (nominal)	-1.5%/+ 0.5%
Pentafluoroethane (HFC-125), wt %	50.0 (nominal)	-0.5%/+1.5%
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 HCI)	1.0	
Chloride, no visible turbidity (indicates about	3 ppm) Pass	
Particulates / solids (visually clean to pass)	Pass	

PROPERTIES

Appearance			Colorless	Colorless liquefied gas		
Odor			Faint, ethe	Faint, ether-like odor		
Molecular Mass (g/mole of blend)			72.59	72.59		
Bubble point at 1 atm			-60.5°F/-	-60.5℉ / -51.4℃		
Dew Point at 1 atm			-60.5°F / -	51.4℃		
Flammable Limits (LFL, UFL), vol % (1 atm, 25°C)			NA / NA	NA / NA		
ANSI/ASHRAE Standard	34 Safety G	roup Classificat	tion A1			
Ozone Depletion Potentia			0			
Global Warming Potential			2,100			
Temperature	50 ° F	70 ° F	105℉	115 ° F	130°F	
Vapor Pressure, psia ⁽¹⁾	157. 3	215.8	355.6	405.9	491.5	
Liquid Density, lb./ft ³⁽¹⁾	70.4	67.3	60.7	58.4	54.3	
(1) generated using NI	ST REFPRO	P Version 9.0				

CAS Number: 75-10-5 (HFC-32) / 354-33-6 (HFC-125)

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.

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