**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 700-2017 Specifications)

<table>
<thead>
<tr>
<th></th>
<th>Maximum (unless otherwise indicated)</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difluoromethane (HFC-32), wt %</td>
<td>50.0 (nominal)</td>
<td>-1.5%/+0.5%</td>
</tr>
<tr>
<td>Pentafluoroethane (HFC-125), wt %</td>
<td>50.0 (nominal)</td>
<td>-0.5%/+1.5%</td>
</tr>
<tr>
<td>Air and Other Non-condensable Gases, vol %</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>Volatile Impurities, wt %</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>High Boiling Residue, vol %</td>
<td>0.01</td>
<td></td>
</tr>
<tr>
<td>Moisture (H₂O), ppm by wt</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Acidity, ppm by wt (as HCl)</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>Chloride, no visible turbidity (indicates about 3 ppm)</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>Particulates / solids (visually clean to pass)</td>
<td>Pass</td>
<td></td>
</tr>
</tbody>
</table>

**PROPERTIES**

- **Appearance**: Colorless liquefied gas
- **Odor**: Faint, ether-like odor
- **Molecular Mass (g/mole of blend)**: 72.59
- **Bubble Point at 1 atm**: -60.5°F / -51.4°C
- **Dew Point at 1 atm**: -60.5°F / -51.4°C
- **Flammable Limits [LL, UL] 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) (CO₂ = 1.0)**: 1,924

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

**TEMPERATURE**

- **Vapor Pressure, psia**
  - 50°F: 157.3
  - 70°F: 215.8
  - 105°F: 355.6
  - 115°F: 405.9
  - 130°F: 491.5

- **Liquid Density, lb./ft³**: (1) 70.4 (2) 67.3 (3) 60.7 (4) 58.4 (5) 54.3

(2) Generated using NIST REFPROP Version 9.1

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

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