



VIN-FP-555/004

climalife[®]

R-455A (Solstice[®] L40X)

GUARANTEED COMMERCIAL SPECIFICATION

STANDARD SPECIFICATION *	LIMIT VALUE
Composition - R-744 - R-32 - R-1234yf	3 % (+2.0% - 2.0%) 21.5 % (+2.0% - 2.0%) 75.5 % (+2.0% - 2.0%)
Purity	99.5 % weight
Water content	≤ 10 ppm weight
Total Acidity (HCL)	≤ 1 ppm weight
Non-condensable content (gas phase)	≤ 1.5 % volume

* data producer

MAIN APPLICATIONS

R-455A (Solstice[®] L40X) is a mildly flammable, non-azeotropic blend containing hydrofluorocarbons (HFCs) and hydrofluoro-olefins (HFOs) with a GWP <150. Its thermodynamic performance allows it to be used as a replacement in new equipment for R-22 and R-404A in low and medium temperature refrigeration as well as heat pumps.

OILS

Use a polyol ester (POE) oil.
Consult **Climalife** regarding the viscosity of the oil selected for your application and the most suitable for your application.

PRECAUTIONS OF USE

Refer to the Safety Data Sheet *.

REGULATION

The use and implementation of R-455A are governed by the European Regulation No 517/2014.

The recovery of R-455A is mandatory under the European Regulation No 517/2014. (Refer to regulations enforced in each country.)

*Find the Safety Data Sheets (SDS) directly on our website www.climalife.dehon.com



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R-455A PHYSICAL PROPERTIES

Molar mass	g/mol	87.45
Melting point	°C	N/A
Boiling point (at 1.013 bar)	°C	-52.03
Temperature glide at 1.013 bar	K	12.85
Saturated liquid density at 25°C	kg/m ³	1033
Vapour density at boiling point	kg/m ³	4.747
Vapour pressure at: 25°C 50°C	bar	13.85 24.43
Critical temperature	°C	87.5
Critical pressure	bar	48.22
Critical density	kg/m ³	459
Latent heat of vaporisation at boiling point	kJ/kg	239.46
Thermal conductivity at 25°C Liquid Vapour at 1.013 bar	W/m.K	0.077 0.014
Surface tension at 25°C	10 ⁻³ N/m	6.99
Viscosity at 25°C Liquid Vapour at 1.013 bar	10 ⁻³ Pa.s	0.127 0.012
Specific heat at 25°C Liquid Vapour at 1.013 bar	kJ/(kg.K)	1.567 0.890
Cp/Cv ratio at 25°C at 1.013 bar		1.131
Flammability in air		Mildly flammable
Flash point		None
Classification NF-EN 378 ASHRAE		A2L A2L
Ozone Depletion Potential		0
GWP IPCC 4th Assessment / 5th Assessment		148 / 146

Please contact your distributor or **Climalife** sales department for more information. In addition, if the refrigeration system you want to install, or are working on, does not appear to be a typical installation, please do not hesitate to contact us for advice and information.

The information contained in this product sheet is the result of our studies and experience. It is provided in good faith, but should not, under any circumstance, be taken to constitute a guarantee on our part or an assumption of our responsibility. This is particularly the case when third party rights are at stake or in situations where a user of one of our products fails to observe applicable regulations.

For more information, please visit our website:



http://www.climalife.dehon.com/contact_us