

# Emkarate<sup>®</sup> RL100H

## Typical Properties Data Sheet

### Product Description:

Emkarate RL100H is an ISO VG 100 synthetic polyol ester (POE) lubricant formulated specifically for use in refrigeration and air-conditioning compressors using HFC refrigerants. This product provides effective wear protection for steel and aluminum surfaces for increased system life and improved efficiency and is suitable for both initial fill and service fill. The combination of low temperature characteristics and unparalleled chemical and thermal stability enable the use of Emkarate RL100H over a wide operating temperature range.

Analysis	Method	Typical Value
Viscosity @ 40°C (cSt)	ASTM D445	98.5
Viscosity @ 100°C (cSt)	ASTM D445	11.4
Viscosity Index	ASTM D2270	103
Density @ 20°C (g/ml)	ASTM D1298	0.969
Pour Point (°C)	ASTM D97	-31
Flash Point COC (°C)	ASTM D92	265
Acid Value (mg KOH/g)	ASTM D974	0.02
Colour (Hazen units)	ISO 2211	80
Water (ppm)	ASTM 6304	30
Miscibility (Low °C) 10% Lube in R134a	In House	-28
Miscibility (High °C) 10% Lube in R134a	In House	>80
Hydroxyl Value (mg KOH/g)	ASTM E326	4

*These values are not intended for use in preparing specifications.  
Additional technical information is available upon request.*

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