

# Emgard<sup>®</sup> RF 32SL

## High Performance Refrigeration Oil

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® = registered trademark of BASF in many countries.

### Description

Emgard RF 32SL is a fully compounded refrigeration lubricant which has been formulated with polyol esters that offers optimum miscibility and compatibility with new generation HFC refrigerants to meet the performance demands of the Refrigeration and Air-conditioning Industry. The following product is for those applications requiring excellent hydrolytic stability and lubricity.

### Application

Emgard RF 32SL is a fully synthetic refrigeration oil designed specifically for using with refrigeration compressors for household and automotive air-conditioning, freezers systems charged with HFC refrigerants such as R134a, etc.

### Features and benefits

- Hydrolytic stability
- Excellent electrical insulating properties
- Low acid values
- Excellent thermal stability
- Improved wear characteristic

Properties	Unit	Emgard® RF 32SL	Method
ISO Viscosity grade		32	ASTM D2422
Viscosity at 40 °C	mm <sup>2</sup> /s	31.14	ASTM D445
Viscosity at 100 °C	mm <sup>2</sup> /s	5.09	ASTM D445
Viscosity index		86	ASTM D2270
Density at 15 °C	kg/cm <sup>3</sup>	958	ASTM D1298
Flash point	°C	220	ASTM D-92
Pour point	°C	- 18	ASTM D-97
Total acid number	mg KOH/g	0.01	ASTM D974
Hydroxyl value	mg KOH/g	3.0	ASTM E222
Thermal stability			
Seal tube, 175 °C		No Change	ASHRAE 97
Hydrolytic stability			
(Final TAN, 1000 ppm water)	mg KOH/g	0.02	ASHRAE 97
Miscibility (10 % oil in R134a)	°C	- 35	ASHRAE 86
Falex failure load	lbs	1000	ASTM D3233
Four-ball wear scar (20 kg, 1200 rpm, 1 hr)	mm	0.72	ASTM D4172

**Storage Stability**

The products in original package can be stored for at least 2 years at ambient storage conditions and temperature without any deterioration.

**Safety**

When using these products, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

**Note**

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

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