



Refrigeration oil

# Sunice® SL-32S/68S

Polyolester (POE) refrigeration oils formulated specifically for use in refrigeration and air-conditioning compressors using HFC/HFO refrigerants. The highest quality of Sunice SL series created by JSOs craftsmanship will ensure trouble-free and stable operation of your valuable refrigeration system.

## APPLICATIONS

For refrigeration compressors using HFC/HFO as a refrigerant.

- Sunice SL-32S/68S is formulated for compressors in refrigerators, chillers, show cases, dehumidifier and air-conditioners using with HFC/HFO refrigerants.
- Especially having excellent miscibility and compatibility with HFC refrigerants such as **R-134a, R404A, R407C, R410A, R507A.**

## ADVANTAGES

Provide outstanding lubricity, stability and corrosion protection.

- Excellent Hydrolytic Stability.
- Remarkable Thermal Stability.
- Outstanding Lubricity.
- High Electrical Insulating Property.
- Supporting to make your compressor's life longer.

## SPECIFICATIONS

Approvals/  
Recommendations/  
References.

Bock, Dorin, Grasso, Hasegawa Refrigeration, Mayekawa, McQuay, Nissin Refrigeration & Engineering, Panasonic, and more.

## Typical Properties

Analysis	Unit	32S	68S
ISO Viscosity Grade		32	68
Density at 15°C	g/cm <sup>3</sup>	0.956	0.960
Viscosity (40 °C)	mm <sup>2</sup> /s	32.3	66.6
Viscosity (100 °C)	mm <sup>2</sup> /s	5.1	8.2
Pour point	°C	-35.0	-40.0
Flash point (COC)	°C	230	254

Above characteristics are mean values given as an information.

## Lowest Evap.Temp. Range

ASHRAE	32S	68S
R-134a	- 40°C	- 30°C
R-404A	- 60°C	- 60°C
R-407C	- 40°C	- 20°C
R-410A	- 30°C	- 10°C
R-507A	- 60°C	- 60°C

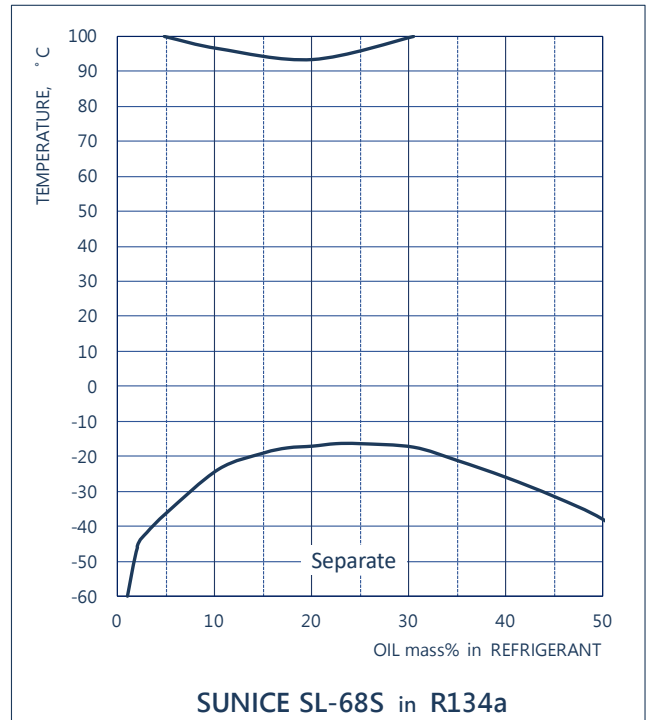
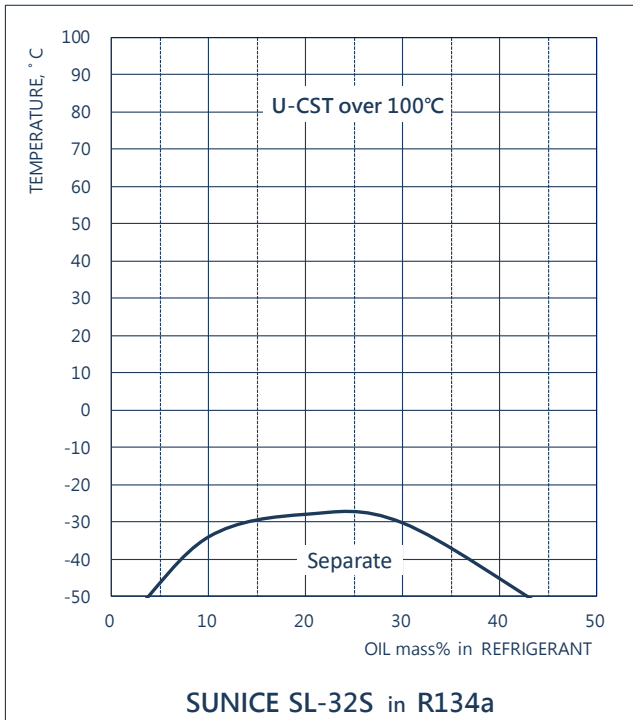
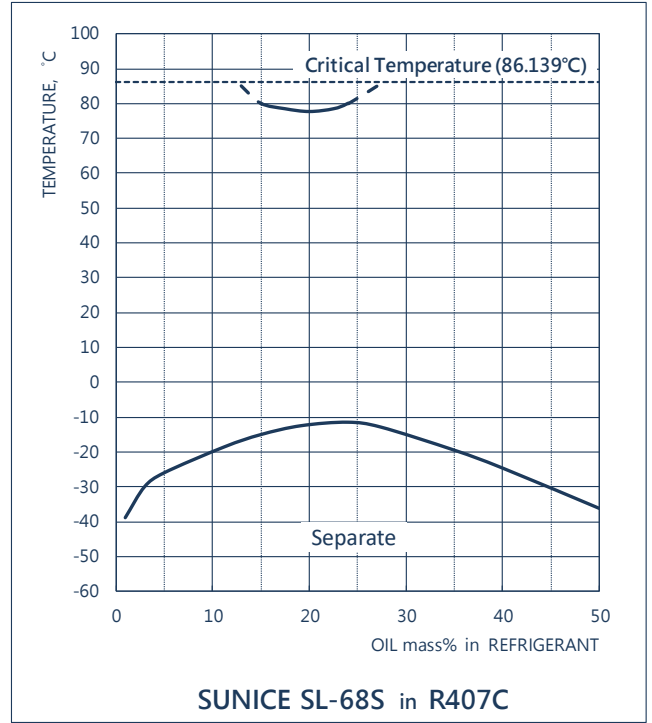
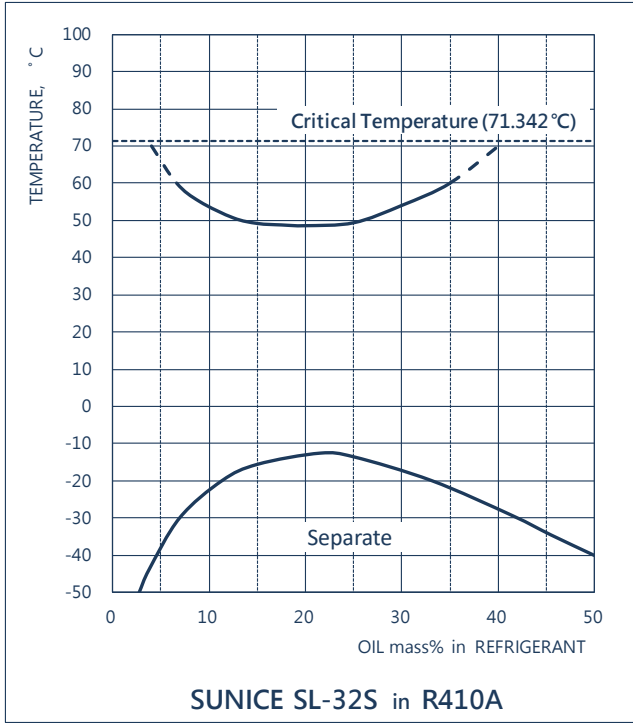
For equipment under warranty, please refer to equipment builder recommendations.





# Product Information Sheet

## Critical Solution Temperature



Sunice® is a registered trademark of Japan Sun Oil Company, Ltd.





Application table

ASHRAE	Evap-Temp From	Piston		Screw	Centrifugal
R744 - sub	-50 °C	32S	68S		
R744 - trans	-50 °C		68S		
R404A	-50 °C	32S	68S	68S	
R407C	-30 °C		68S		
R410A	-25 °C	32S		68S	
R410A	-45 °C	32S			
R417A	-15 °C		68S		
R448A	-50 °C	32S	68S	68S	
R449A	-50 °C	32S	68S	68S	
R452A	-40 °C	32S	68S	68S	
R454A	-40 °C	32S	68S	68S	
R507A	-60 °C	32S		68S	
R134a	-20 °C	32S	68S		68S
R134a	-40 °C	32S		68S	68S
R245fa	-20 °C			68S	68S
R1234yf	-20 °C	32S	68S	68S	68S
R1234ze(E)	-20 °C	32S	68S	68S	68S
R1233zd(E)	-20 °C			68S	68S

For equipment under warranty, please refer to equipment builder recommendations.

In changing the technology or brand of refrigeration oil, flushing the system is recommended to minimize contamination with the old technology or brand.

Contact:

East Asia, Australia & New Zealand

South East Asia & India

**Japan Sun Oil Company, Ltd.**

Trusty Kojimachi Bldg., 3-4 Kojimachi,  
Chiyoda-ku, Tokyo 102-0083 Japan  
exp@sunoco.co.jp  
www.sunoco.co.jp

**SUNOCO (Thailand) Co., Ltd.**

United Tower 15th Floor, 333/21  
Sukhumvit Rd, Soi 55, North Klongton,  
Wattana, Bangkok 10110 Thailand  
exports@sunoco.co.th  
www.sunoco.co.th

