

# SynCold<sup>®</sup> RLD Series

Refrigeration Compressor Lubricant

## Introduction

SynCold<sup>®</sup> RLD series lubricants are formulated from selected polyol esters and special additives, offering excellent solubility, thermal stability, lubricity, and hydrolysis resistance. SynCold<sup>®</sup> RLD series utilizes a specialized synthesis process, resulting in a uniform product rather than a blend of various viscosity esters. They are suitable for household refrigerators, household air conditioning units, industrial refrigeration systems, and all applications where HFCs refrigerants are recommended.

SynCold<sup>®</sup> RLD series perform well under critical temperatures, maintaining a desirable compatibility (dissolvability) and acceptable viscosity of the refrigerant/lubricant mixtures. They boast good wear resistance, stability, and a long service life. Additionally, they are compatible with HCFCs and CFCs refrigerants, as well as other refrigeration lubricants like mineral oil, polyalphaolefins, and alkylbenzenes.

## Applications and Compressor Types

- HFCs, HCFCs, CFCs, HCs
- Reciprocating Screw, Rotary, Centrifugal, Scroll Compressors

## Features

Features	Benefits
Excellent high-temperature stability	Achieving Extended Lubricant Service Life
Clear solubility and P-V-T relationship with HFCs	Precise miscibility control ensures optimal viscosity, enable users to tailor oil for specific equipment needs.
Outstanding anti-wear performance	Reduces compressor wear and lowers maintenance costs
High viscosity index, wax-free	Excellent low-temperature fluidity, no wax deposits, improves evaporator efficiency
Wide range of viscosity choices	Meets various equipment and application viscosity requirements
Environmentally friendly	Complies with REACH and RoHS standards



## Specifications

Compliance standards: Q/GH1007

Meet the following standards:

- (DIN) DIN51503-1, German Society of Standardization
- (JISC) JIS K2211, Japanese Industrial Standards Survey (JISC)
- BS 2626, The British Standards Institute (BS)

## Properties

Product Name	RLD22	RLD32	Test Method
ISO viscosity grade	22	32	GB/T 3142
Viscosity @40°C, mm <sup>2</sup> /s	22.50	32.50	GB/T 265
Color	<0.5	<0.5	GB/T 6540
Density @20°C, kg/m <sup>3</sup>	1022	982	SH/T 0604
Viscosity Index	127	119	GB/T 1995
Flash point, °C	240	252	GB/T 3536
Pour point, °C	-60	-55	SH/T0886
Acid value, mg KOH/g	<0.02	<0.02	GB/T 4945
Compatibility with R134a Refrigerant (20% oil, 80% R134a), °C	-55	-38	SH/T 0699
Extreme pressure (Falex) Failure load, N	3720	3750	SH/T 0187
Viscosity (R134a, 3.4MPa, 80°C), mm <sup>2</sup> /s	2.42	2.85	PVT test

SynCold® RLD Series is available in various viscosities to meet user specific needs. Additional information is available upon request.

## Health and Safety

Refer to the Material Safety Data Sheet (MSDS) on the official website for health and safety information.

## Package size

200L drums, 20L pails, 10L pails, 4L containers, 1L bottles



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