

SynCold[®] RLT Series

Refrigeration Compressor Lubricant

Introduction

SynCold[®]RLT68GX is a synthetic polyol ester (POE) refrigeration lubricant with an ISO viscosity grade of 68 (ISOVG68) specifically designed for commercial, industrial refrigeration, and air conditioning compressors. SynCold[®]RLT68GX is engineered to maximize the lubrication performance of HFCs systems. When used in conjunction with standard HFCs lubricants, SynCold[®]RLT68GX provides superior film strength and exceptional bearing protection. It effectively protects steel and aluminum surfaces from wear, extending system life and improving efficiency.

SynCold[®] RLT 68GX lubricant is ideal for standard factory filling of air conditioning and industrial refrigeration equipment, as well as OEM retrofit operations. Specialized production lines can be established for compressor lubricants based on data from compressor bench tests and performance specifications from equipment manufacturers.

Applications and Compressor Types

- HFCs, HCFCs, HFOs
- Reciprocating Screw, Rotary, Centrifugal, Scroll Compressors

Features

Features	Benefits
Thermal Stability	Extended System Lifespan
Enhanced Oil Performance and Service Life	Efficiency Gains
Corrosion Protection	Improved System Reliability and Reduced Downtime
Exceptional Bearing Lubrication	Extended Compressor Life
Optimized System Performance	Reduced Operating Costs
Superior Lubrication Properties	Improved Efficiency and Lower Operating Costs
Environmentally Friendly	Complies with REACH and RoHS standards



Specifications

Compliance standards: Q/GH1009

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	RLT68GX	Test Method
ISO viscosity grade	68	
Viscosity @40°C, mm ² /s	67.5	ASTM D445
Viscosity @100°C, mm ² /s	8.21	ASTM D445
Viscosity Index	90	ASTM D2270
Density @20°C, g/ml	0.955	ASTM D4052
Flash point, °C	256	ASTM D92
Pour point, °C	-36	ASTM D97
Ignition point, °C	282	ASTM D92
Dielectric Breakdown Voltage, kV	45	ASTM D877
Water content, ppm	<50	ASTM D1533

SynCold® RLT 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

