



Rodutherm POE

POE Refrigeration Compressor Lubricant · 422 Series |
Technical Data Sheet

Introduction

Rodutherm POE is a next generation POE refrigeration lubricant specifically formulated for use with both conventional HFC refrigerants and the new low GWP HFO refrigerants. This highly oxidatively and thermally stable formulation provides a long oil life and excellent protection for critical system components.

Applications, Gases & Benefits

Applications	Gases	Benefits
▶ Reciprocating compressors ▶ Rotary screw compressors ▶ Centrifugal and scroll compressors ▶ Rotary vane compressors	▶ R-32, R-1234yf, R-134a, R-448a, R-449a ▶ R-455a, R-450, R-404a, R-410a ▶ R-417a, R-422a/d, R-427a, R-507, R-508b, R-513a	▶ Long fluid life ▶ Formulated for HFO and HFC refrigerants ▶ High viscosity index for excellent fluidity and lubricity ▶ Excellent low temperature stability ▶ Excellent wear protection ▶ Highly stable — ideal for water-contamination environments

Technical Specifications

Property		VG 22	VG 32	VG 46	VG 68	VG 100	VG 150	VG 220
Viscosity @ 40 °C	cSt	23	33	45	69	99	150	215
Viscosity @ 100 °C	cSt	4.7	6.1	7.7	10.1	12.2	16.4	21.5
Viscosity Index		124	132	140	130	115	116	120
Density @ 15 °C	g/cm ³	0.992	0.994	0.996	0.988	0.978	0.981	0.983
Pour Point	°C	-57	-57	-54	-48	-39	-36	-34
Flash Point	°C	243	244	246	250	253	272	287
Copper Strip (D130)		1a	1a	1a	1a	1a	1a	1a
TAN (mg KOH/g)		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

NOTE: Values in this Technical Data Sheet are typical and do not constitute a specification. Manufacturing specifications are available on request. Routine oil analysis is recommended. Specifications are subject to change due to formulation or raw-material updates; always verify that this TDS is the most current version.

Rodutherm POE — Technical Data Sheet The data presented is typical and subject to normal manufacturing variation. For product safety information, please refer to the Safety Data Sheet.