



Rodutherm GPL PAG-EO

PEG Compressor Lubricant · 224 Series | Technical Data Sheet

Introduction

Rodutherm GPL PAG-EO is a polyethylene glycol (PEG) based lubricant that delivers near-zero dilution in heavy hydrocarbon gas service. With a maximum hydrocarbon solubility below 3 wt%, it maintains full operating viscosity where mineral and PAO-based lubricants lose film strength to gas absorption. Designed for sour and heavy hydrocarbon compression, petrochemical process gas service, and hydrocarbon heat pump applications.

Applications, Gases & Benefits

Applications	Gases	Benefits
▶ Heavy hydrocarbon gas compression ▶ Sour gas compression (H₂S-containing streams) ▶ Natural gas infrastructure (rich gas, NGL) ▶ Petrochemical process gas compression ▶ Industrial heat pumps (hydrocarbon refrigerant)	▶ Heavy hydrocarbon gas mixtures ▶ Sour gas and acid gas streams ▶ Hydrocarbon refrigerants: R-290, R-600, R-600a, R-601, R-601a	▶ Near-zero viscosity dilution (hydrocarbon solubility <3 wt%) ▶ Virtually no miscibility with hydrocarbon gases ▶ Minimal downstream lubricant carryover ▶ Excellent thermal and oxidation stability ▶ Extended service life under continuous duty ▶ High viscosity index for wide-temperature operation ▶ Corrosion protection in sour gas service (H₂S)

Technical Specifications

Property		VG 22	VG 32	VG 46	VG 68	VG 100	VG 150
Viscosity @ 40 °C	cSt	22	32	46	68	100	152
Viscosity @ 100 °C	cSt	4.3	5.6	7.7	10.6	15	22.4
Viscosity Index		100	115	135	143	148	175
Density @ 15 °C	g/cm ³	1.13	1.14	1.14	1.14	1.14	1.14
Pour Point	°C	-54	-51	-48	-42	-39	-30
Flash Point	°C	179	205	224	237	270	265
Copper Strip (D130)		1b	1b	1b	1b	1b	1b
Rust Test (D665)		Pass	Pass	Pass	Pass	Pass	Pass

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 GPL PAG-EO — 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.