



Rodutherm GPL PAG-WS

PAG Compressor Lubricant · 162 Series | Technical Data Sheet

Introduction

Rodutherm GPL PAG-WS is a water-soluble polyalkylene glycol (EO/PO copolymer) lubricant designed for heavy hydrocarbon gas compression, high-pressure service, and high-temperature heat pump applications. Its unique chemistry provides strong dilution resistance with high-molecular-weight hydrocarbon and process gases. Suited for sour gas, natural gas infrastructure, carbon capture and CCUS compression, petrochemical process gas, and vapor recovery duties.

Applications, Gases & Benefits

Applications	Gases	Benefits
▶ Heavy hydrocarbon gas compression ▶ Sour gas and high-pressure compression ▶ Carbon capture and CCUS compression ▶ Natural gas infrastructure compression ▶ Petrochemical process gas compression ▶ Vapor recovery compression ▶ High-temperature heat pumps	▶ Light and heavy hydrocarbon gas mixtures ▶ Sour gas and acid gas streams (H₂S) ▶ Hydrocarbon process gases ▶ Heat pump refrigerants: R-600, R-600a, R-601, R-601a	▶ Strong resistance to viscosity dilution by heavy hydrocarbons ▶ Suited for high-pressure compression service ▶ Very low volatility and minimal lubricant carryover ▶ Excellent thermal and oxidation stability ▶ Very high viscosity index (180–248) ▶ Superior carbon and varnish control ▶ Extended service life under continuous duty

Technical Specifications

Property		VG 32	VG 46	VG 68	VG 100	VG 150	VG 220	VG 320
Viscosity @ 40 °C	cSt	32	46	68	100	150	220	320
Viscosity @ 100 °C	cSt	6.8	9.9	14.1	20	29	41	58
Viscosity Index		180	207	217	224	232	240	248
Density @ 15 °C	g/cm ³	1.03	1.03	1.04	1.04	1.05	1.06	1.06
Pour Point	°C	-54	-51	-48	-45	-42	-33	-30
Flash Point	°C	217	220	227	234	241	243	246
Copper Strip (D130)		1b	1b	1b	1b	1b	1b	1b
Rust Test (D665)		Pass	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-WS — 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.