TECHNICAL DATA SHEET

NEXT GPL PAG-EO

PEG Compressor Lubricant · 224 Series

NEXT 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, GPL PAG-EO virtually eliminates downstream lubricant carryover and resists carbon and varnish formation under sustained high-temperature duty.

APPLICATIONS

- Heavy hydrocarbon gas compression
- Sour gas compression (H_2S-containing streams)
- Natural gas infrastructure (rich gas, NGL)
- Petrochemical process gas compression
- Industrial heat pumps (hydrocarbon refrigerant)

GASES

- Heavy hydrocarbon gas mixtures
- Sour gas and acid gas streams
- Hydrocarbon refrigerants: R-290, R-600, R-600a, R-601, R-601a

BENEFITS

- 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
- Superior carbon and varnish control
- Corrosion protection in sour gas service (H_2S)

TECHNICAL SPECIFICATIONS

Typical properties

ISO Viscosity Grade	22	32	46	68	100	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/cm³)	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 Corrosion (D130)	1b	1b	1b	1b	1b	1b
Rust Test (D665, Distilled H_2O)	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 to assess the in-service condition of the lubricant. Specifications are subject to change due to formulation or raw-material updates; always verify that this TDS is the most current version.