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. It maintains full operating viscosity and film strength under continuous exposure to hydrocarbon-rich gas streams.

Designed for sour and heavy hydrocarbon compression, petrochemical process gas service, and hydrocarbon heat pump applications, NEXT 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
- Hydrocarbon refrigeration and heat pump systems

GASES

- Medium to heavy hydrocarbon gas mixtures
- Sour gas and acid gas streams
- Hydrocarbon refrigerants: R-50, R-170, R-1150, R-290, R-1270, R-600, R-600a, R-601, R-601a

BENEFITS

- Near-zero viscosity dilution
- 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 / 104 °F (cSt)	22	32	46	68	100	152
Viscosity @ 100 °C / 212 °F (cSt)	4.3	5.6	7.7	10.6	15	22.4
Viscosity Index	100	115	135	143	148	175
Density @ 15 °C / 59 °F (g/cm³)	1.13	1.14	1.14	1.14	1.14	1.14
Pour Point (°C / °F)	-54 / -65	-51 / -60	-48 / -54	-42 / -44	-39 / -38	-30 / -22
Flash Point (°C / °F)	179 / 354	205 / 401	224 / 435	237 / 459	270 / 518	265 / 509
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.