

## TECHNICAL DATA SHEET

# NEXT GPL PAO

## PAO Gas Compressor Lubricant · 215 Series

NEXT GPL PAO is a polyalphaolefin (PAO) based gas compressor lubricant with an advanced additive package, designed for the widest range of process and hydrocarbon gas compression duties in the NEXT portfolio.

Its combination of exceptional thermal stability, very low pour point (down to  $-63\text{ }^{\circ}\text{C}$ ), and superior water separation makes it the preferred synthetic lubricant for sour gas, biogas,  $\text{CO}_2$ , cryogenic, LNG, petrochemical, and industrial gas compression where carbon and varnish control are critical.

**APPLICATIONS**

- Hydrocarbon and sour gas compression
- Biogas and biomethane compression
- $\text{CO}_2$  process gas and carbon capture compression
- Cryogenic and LNG infrastructure compression
- Industrial and specialty gas compression
- Ammonia and urea production compression
- Petrochemical process gas compression
- Vapor recovery compression

**GASES**

- Light to medium hydrocarbon gases
- Sour gas and acid gas streams ( $\text{H}_2\text{S}$ )
- Biogas, biomethane, and landfill gas
- $\text{CO}_2$ , nitrogen, and inert process gases
- LNG boil-off gas and cryogenic gases

**BENEFITS**

- Excellent thermal and oxidation stability
- Superior carbon and varnish resistance
- Corrosion protection in sour gas service ( $\text{H}_2\text{S}$ )
- Very low pour point (down to  $-63\text{ }^{\circ}\text{C}$ ) for cryogenic duty
- Extremely low volatility and minimal carryover
- High water separation – outperforms PAG in wet gas streams
- Extended service life under continuous duty
- Low water content ( $<50\text{ ppm}$ )

**TECHNICAL SPECIFICATIONS**

# Typical properties

ISO Viscosity Grade	15	22	32	46	68	100	150	220
Viscosity @ 40 °C (cSt)	15	22	32	46	68	100	150	220
Viscosity @ 100 °C (cSt)	3.65	4.6	5.9	7.6	10.4	14.2	20.1	27.3
Viscosity Index	120	123	129	130	138	145	155	159
Density @ 15 °C (g/cm <sup>3</sup> )	0.83	0.84	0.84	0.85	0.85	0.85	0.85	0.85
Pour Point (°C)	-63	-63	-61	-57	-54	-52	-53	-49
Flash Point (°C)	213	229	243	259	259	260	252	260
Copper Strip Corrosion (D130)	1a	1a	1a	1a	1a	1a	1a	1a
Rust Test (D665, Distilled H <sub>2</sub> O)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Water Content (ppm)	<50	<50	<50	<50	<50	<50	<50	<50

**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.