



PALMESTER 3970

Biolubricant Base Oil

API Group V Synthetic Fluid

Excellent Lubricity

Excellent Viscosity Properties

Lower Volatility

Excellent Low Temperature Properties

Excellent Thermal, Oxidative, Hydrolytic and Shear Stability

Compatible with Polar and Non-polar Components

Halal and Kosher Certified

Clean Burning

Sustainable

Biodegradable

PALMESTER 3970 is a polyol ester specially designed for lubricant applications. It is suitable to serve as synthetic base oil and additive to formulate automotive lubricants, general industrial oils, biodegradable lubricants, metalworking fluids & greases.

PALMESTER 3970 is a low viscosity ester with high viscosity index characteristic. It has excellent low-temperature cranking viscosity (CCS) at -35°C, low pour point and cloud point. These properties are crucial for high performance engine oils with low NOACK volatility loss.

It is highly compatible with Group I, II & III mineral base oils, synthetic base oils including polyalphaolefin (PAO), naphthenic base oils, vegetable oils and other synthetic fluids.

PALMESTER 3970 is an ideal choice as sole base stock or blended stocks to optimise the oil's properties.

**Your Trusted Partner
for Lubricant Solutions**



Typical Properties

Test	Typical Value	Test Method
Colour	L0.5	ASTM D1500
Density @ 15°C (g/mL)	0.946	ASTM D4052
Density @ 30°C (g/mL)	0.935	ASTM D4052
Acid Value (mgKOH/g)	Max. 0.1	ASTM D1980
Cloud Point (°C)	-39	ASTM D2500
Pour Point (°C)	-54	ASTM D97
Flash Point (°C)	246	ASTM D92
KV @ 40°C (mm ² /s)	19.8	ASTM D445 / 446 / 7042
KV @ 100°C (mm ² /s)	4.4	ASTM D445 / 446 / 7042
Viscosity Index	136	ASTM D2270
Saponification Value (mgKOH/g)	310	ASTM D5558

Please contact our sales representative for more information.



Automotive Lubricants

- 2 Strokes motorcycle oil
- 4 Strokes motorcycle oil
- 4 Strokes engine oil
- Premium/Racing lubricant
- Manual gear oil
- Automatic transmission fluid



General Industrial Oils

- Air compressor oil
- Hydraulic oil
- Industrial gear oil
- Chain oil
- Turbine oil



Metalworking Fluids

- Soluble oil
- Cutting oil
- Rolling oil
- Forming oil
- Rust preventive fluid



Greases

- High temperature grease
- Synthetic grease



Biodegradable & EAL

- Biodegradable & Environmental Acceptable Lubricants

KLK OLEO in the Global Arena



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Above certification is applicable for specific product and/or plant.

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