



PRODUCT DATA SHEET

SYNTHETIC SUPERCHARGER OIL

Synthetic Supercharger Oil is a fully synthetic ester based lubricant, specially formulated to lubricate supercharger internals. The fluid exhibits outstanding thermal stability and resistance to foaming and is fortified with anti-oxidant, anti-wear and anti-corrosion additives, giving the fluid exceptional performance against the strains placed on it by elevated temperatures and high rotational speeds.

APPLICATIONS

Synthetic Supercharger Oil is suitable for use in most superchargers. Synthetic Supercharger Oil should be replaced between 65,000 – 80,000 Kilometers depending on driving styles.

NOTE: Synthetic Supercharger Oil is not suitable in Rotrex superchargers where a traction fluid is required.

BENEFITS

Synthetic Supercharger Oil is formulated to meet the demanding requirements of superchargers and gas turbines operating over a wide range of severe operating conditions. The product has a high specific heat in order to ensure good heat transfer from oil-cooled components. In extensive laboratory testing and in-usage performance, Synthetic Supercharger Oil exhibited excellent bulk oil stability at temperatures up to 204°C. The evaporation rate at these temperatures is low enough to prevent excessive loss of volume. Key features and benefits include:

Features, Advantages and Potential Benefits	
Excellent thermal and oxidation stability	Reduces the formation of carbon and sludge deposits Maintains supercharger efficiency and extends supercharger life
Excellent wear and corrosion protection	Extends gear and bearing life thereby reducing maintenance costs
Retains viscosity and film strength across wide temperature range	Provides effective lubrication at high operating temperatures
Chemically stable	Reduces evaporation losses
Low pour point	Eases start-up in low ambient temperature conditions

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PHYSICAL CHARACTERISTICS

cSt @ 40°C (102°F)	28
cSt @ 100°C (212°F)	5.3
cSt @ -40°C (-40°F)	11,000
cSt @ -40°C (-40°F)	0.15
Pour Point, °C (°F), ASTM D 97	-59 (-74)
Flash Point, °C (°F), ASTM D 92	270 (518)
Fire Point, °C (°F)	285 (545)
Autogenous Ignition Temp, °C (°F)	404 (760)
TAN (mg KOH/g sample)	0.03
Density @15 °C, kg/l, ASMT D 4052	1.0035
Evaporation Loss, %	
6.5 hr @ 204°C, 29.5" Hg	3.0
6.5 hr @ 232°C, 29.5" Hg	10.9
6.5 hr @ 232°C, 5.5" Hg	33.7
(Equals pressure @ 40,000 Ft. altitude)	
Foam, ml	
Sequence I, 24°C	8
Sequence II, 93.5°C	10
Sequence III, 75°C (after 200 F test)	8
Foam Stability, after 1 min settling, ml	0
Rubber Swell	
F Rubber, 72 hr @ 204° C, %	15.6
H Rubber, 72 hr @ 70°C, %	16.4
Sonic Shear Stability, KV @ 40°C, change, %	0.9
Ryder Gear, Ave. lb/in % Herculube A	2750 ,115

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