

Engine and Driveline Technical Data Sheet

Synthetic esters are high performance base stock components used in the formulation of synthetic engine, transmission and racing oils due to their low NOACK volatility, thermal stability and compatibility with mineral oil and PAO base oils. Their polar nature conditions seals, improves additive solubility and reduces deposit formation solubilizing sludge, soot and other oxidation byproducts. Synthetic esters provide shear stable high viscosity index which enhances operating efficiency and fuel economy.

The global automotive industry continues to demand lower viscosity motor oils that provide better fuel efficiency under more severe conditions, while maintaining wear protection and long drain intervals. Engine and transmission oils must flow under cold weather conditions to lubricate on startup and also provide lubricating film strength under high temperature/high shear conditions. High quality synthetic esters combined with PAO and Group III mineral oils deliver advanced performance for the next generation of synthetic engine oils.

Diesters and polyol esters are particularly favored for two stroke engines oils that require an environmentally friendly, clean burning fuel component that provides excellent lubricity and inhibits deposit formation.

Synthetic Ester	Chemistry	Viscosity @ 40°C (cSt)	Viscosity @ 100°C (cSt)	Viscosity Index	Flash Pt. (°C)	Pour Pt. (°C)
LUBRICIT DIOA	Diester	9	2.7	150	215	-60
LUBRICIT DOS	Diester	12	3.2	150	235	-58
LUBRICIT DIDA	Diester	14	3.6	145	230	-60
LEXOLUBE 3I-310	Polyol	14	3.4	120	230	-65
LUBRICIT TMP C810	Polyol	20	4.4	140	260	-40
LUBRICIT TMP C9	Polyol	21	4.6	140	275	-50
LUBRICIT PE 510/1	Polyol	22	4.7	135	285	-45
LUBRICIT DTDA	Diester	23	4.9	145	245	-55
LUBRICIT DTDA/1	Diester	27	5.4	135	250	-60
LUBRICIT 9515	NPG	46	8.2	150	280	-35
LEXOLUBE PQ-68	Polyol	68	8.6	100	250	-30
LUBRICIT 9505	Dimer	88	13	150	325	-30
LUBRICIT 2-EHD/1	Dimer	93	13	140	310	-40
LUBRICIT 9522	Complex	140	19	145	310	-50
LEXOLUBE CLG-460	Complex	460	40	135	285	-20
LEXOLUBE CQ-3000	Complex	3000	205	180	300	-15

Features

- ▶ Thermal/oxidative stability
- ▶ Low NOACK volatility
- ▶ Shear stable high viscosity index
- ▶ Low temperature fluidity
- ▶ Additive solubility
- ▶ Lubricity
- ▶ Deposit and sludge control

Applications

- ▶ Synthetic engine oils
- ▶ Racing oils
- ▶ New ultra low FE viscosity grades
- ▶ Two stroke lubricant additives
- ▶ Environmentally friendly oils
- ▶ Transmission fluids
- ▶ Dual purpose coolant/lubricants for electric vehicles

Please inquire about additional tailor-made products that can be made to fit your exact performance requirements.

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