

Engine Oil Technical Data Sheet

Synthetic esters have long been used in high performance synthetic engine and racing oils because of their low NOACK volatility, thermal stability and additive compatibility. They also balance seal swell and solubilize sludge, soot and other oxidation byproducts. Zschimmer & Schwarz offers several synthetic ester base fluids for engine lubrication.

The automotive industry continues to demand lower viscosity motor oils that provide better fuel efficiency under more severe conditions all while expecting longer drain intervals. Engine oils must flow in the dead of winter to lubricate on startup and survive the engine's heat on a hot summer day. 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 additive that provides excellent lubricity without leaving residues.

Synthetic Ester	Chemistry	Viscosity @40 °C(cSt)	Viscosity @100 °C(cSt)	Viscosity Index	Flash Pt. (°C)	Pour Pt. (°C)
Lubricit DIOA	Diester	9	3	145	215	-70
Lubricit DOS	Diester	12	3	150	235	-55
Lubricit DIDA	Diester	13	4	145	220	-55
Lexolube 3I-310	Polyol	14	3	120	230	-65
Lubricit TMP C810	Polyol	19	4	140	270	-45
Lubricit TMP C9	Polyol	21	5	140	285	-30
Lubricit DTDA	Diester	22	5	150	245	-55
Lexolube 2X-109	Diester	27	5	140	260	-60
Lubricit PE 49	Polyol	33	6	150	315	-45
Lexolube PQ-68	Polyol	68	9	105	250	-30
Lubricit 9505	Diester	88	13	150	325	-65
Lubricit 2-EHD/1	Diester	93	14	145	310	-40
Lubricit 9522	Complex	160	21	140	310	-55
Lexolube CLG-460	Complex	460	43	135	285	-25
Lexolube CQ-3000	Complex	3000	290	230	320	-20

Features

- ▶ Thermal/oxidative stability
- ▶ Low NOACK volatility
- ▶ Low temperature fluidity
- ▶ Seal swell
- ▶ Long drain interval
- ▶ Additive solubility

Applications

- ▶ Synthetic engine oils
- ▶ Racing oils
- ▶ New ultra low viscosity grades
- ▶ Two stroke lubricant additives
- ▶ Environmentally friendly oils

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