

Metalworking Lubricants Technical Data Sheet

Synthetic esters are well suited for use as base stocks and additives in aqueous and straight metalworking fluids due to their polar nature, which enables them to adsorb on metal surfaces, reducing friction and wear in the EHL and boundary lubrication regimes.

Synthetic esters are widely used in both ferrous and non-ferrous cutting, rolling, forming and grinding applications. They can be readily emulsified to form stable synthetic and semi-synthetic fluids, and are useful as additives in straight or soluble oil formulations. Synthetic esters have low VOC and a favorable toxicological profile so they are worker friendly and environmentally responsible.

Synthetic Ester	Chemistry	Viscosity @ 40°C (cSt)	Viscosity @ 100°C (cSt)	Viscosity Index	Flash Pt. (°C)	Pour Pt. (°C)
LUBRICIT 2-EH iC9	Monoester (S)	3.5	1.4	n/a	150	-75
LUBRICIT iC9-9	Monoester (S)	4.5	1.7	n/a	145	-75
LUBRICIT 2-EHL	Monoester (S)	5.0	1.8	n/a	185	-25
LEXOLUBE IPP	Monoester (S)	5.0	2.0	275	170	10
LEXOLUBE IPO	Monoester (U)	5.5	2.0	215	175	-25
LUBRICIT 2-EHC	Monoester (S)	6.0	2.0	150	180	-25
LEXOLUBE NBS	Monoester (S)	6.5	2.2	195	195	20
LUBRICIT 2-EHO	Monoester (U)	8.0	2.7	190	220	-40
LUBRICIT 2-EHC16	Monoester (S)	8.5	2.6	165	210	0
LUBRICIT 2-EHS	Monoester (S)	10	2.9	170	220	5
LEXOLUBE HS-S*	Monoester (S)	11	3.0	130	225	5
LUBRICIT NGDO	Polyol (U)	24	5.8	200	260	-30
LUBRICIT GTO	Glyceryl (U)	40	8.5	200	325	-25
LUBRICIT TMP C18	Polyol (U)	46	9.4	190	325	-40
LUBRICIT GMO	Glyceryl (U)	50	9	150	240	0
LUBRICIT PE 418	Polyol (U)	66	12	185	330	-20
LUBRICIT DPE 618	Polyol (U)	110	18	180	360	-25
LUBRICIT 9538	Complex (U)	140	22	180	290	-20
LUBRICIT 9526	Complex (U)	330	45	185	320	-40
LEXOLUBE CLG-460	Complex (S)	460	40	135	285	-20
LEXOLUBE CP-460LC	Complex (S)	460	46	160	290	-25
LEXOLUBE CG-3000	Complex (U)	3000	290	235	310	-20
LEXOLUBE CQ-3000	Complex (S)	3000	205	180	300	-15

Synthetic Ester Features

- Lubricity and wear protection
- Long tool life
- Biodegradability
- Hydrolytic stability

Applications

- Straight oils
- Soluble oils
- Synthetic
- Semi-synthetic

Chemistry Class

- (S) Saturated
- (U) Unsaturated

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

*Certain methods and uses may be covered by one or more awarded or pending patents held by Zschimmer & Schwarz worldwide

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