

Diester Technical Data Sheet

Diester are low to medium viscosity synthetic base stocks that have two ester groups. Most diester are made from a dibasic acid combined with monofunctional alcohols, while a polyol diester is made from a synthetic glycol and monofunctional acids.

Diester are known for outstanding low temperature properties, lubricity and solvency. The polar ester groups provide excellent high temperature stability and low temperature fluidity. When comparing diester to hydrocarbon oils and other synthetics with the same viscosity, a diester fluid will have a higher flash point, lower volatility and better thermal stability. Diester improve additive solubility and seal conditioning, while offering natural high viscosity index that boosts lubrication efficiency.

Synthetic Ester	Chemistry	Viscosity @ 40°C (cSt)	Viscosity @ 100°C (cSt)	Viscosity Index	Flash Pt. (°C)	Pour Pt. (°C)
LEXOLUBE 2I-214/1	NPG	5.5	1.9	n/a	190	-70
LUBRICIT DOA	Diacid	8	2.3	120	215	-50
LUBRICIT NGC810	NPG	8	2.5	135	205	-30
LUBRICIT NG 710	NPG	8.5	2.5	140	210	-50
LUBRICIT NGDP/1	NPG	9	2.6	115	205	-30
LUBRICIT DIOA	Diacid	9	2.7	150	215	-60
LUBRICIT 2-EHAZ	Diacid	11	3.1	150	215	-70
LUBRICIT DINA	Diacid	11	3.1	150	220	-60
LUBRICIT DOS	Diacid	12	3.2	150	235	-60
LUBRICIT DIDA	Diacid	14	3.6	145	230	-60
LUBRICIT NGDC	NPG	18	4	155	220	0
LUBRICIT DIDS	Diacid	21	4.7	155	240	-50
LUBRICIT PGDO	PG	21	5.5	215	280	-30
LUBRICIT DTD A	Diacid	23	4.9	145	245	-55
LUBRICIT NGDO	NPG	24	5.8	200	260	-30
LUBRICIT DTD A/1	Diacid	27	5.4	135	250	-60
LUBRICIT 9515	NPG	46	8.2	150	280	-35
LUBRICIT 2-EHD	Dimer	83	13	150	315	-40
LUBRICIT 9505	Dimer	88	13	150	325	-30
LUBRICIT 2-EHD/1	Dimer	93	13	140	310	-40

Features

- Low volatility
- Low temperature fluidity
- Lubricity
- Additive solubility
- Seal swell
- High viscosity index
- Deposit control

Applications

- Engine and Driveline
- Compressor lubricants
- Hydraulic fluids
- Grease
- Metalworking fluids
- Gear & Chain oils
- Textile lubricants

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

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