

HX-1 Esters for Food Processing Technical Data Sheet

Food processing lubricants are nonfood compounds that can be used in applications where incidental food contact is possible. Acceptable lubricants approved for incidental food contact applications are listed in the **H1** category by NSF International, following FDA guideline 21.CFR 178.3570.

The following synthetic esters are registered in the HX-1 category, allowing their use as components in the formulation of an **H1** lubricant. To be clear, HX-1 ingredients and H1 lubricants are for incidental food contact only. They are not food additives and cannot be intentionally added to food.

Synthetic Ester	Chemistry	Viscosity @ 40°C (cSt)	Viscosity @ 100°C (cSt)	Viscosity Index	Flash Pt. (°C)	Pour Pt. (°C)
LEXOLUBE IPO	Monoester	5	2.0	215	175	-25
LEXOLUBE GT-855IG	Glyceryl	15	4.0	135	235	-15
LEXOLUBE 3N-310	Polyol	20	4.4	140	260	-40
LUBRICIT TMP C9	Polyol	21	4.6	140	275	-50
LUBRICIT TMP C18-VEG	Polyol	46	9.4	190	325	-45
LUBRICIT GMO	Glyceryl	50	9	150	240	0
LUBRICIT GMO-VEG	Glyceryl	50	9	150	240	0
LUBRICIT 9537	Polyol	300	22	90	300	-5
LUBRICIT 9526	Complex	330	45	185	320	-40
LUBRICIT 9538/1	Dimer	330	45	185	325	-40
LEXOLUBE CG-3000	Complex	3000	290	235	310	-20
LEXOLUBE FG-8 HX1	Diester	8	2.3	120	215	-50
LEXOLUBE FG-12 HX1	Diester	12	3.3	165	240	-55
LEXOLUBE FG-20 HX1	Polyol	20	4.4	140	260	-40
LEXOLUBE FG-22 HX1	Polyol	22	4.7	140	270	-40
LEXOLUBE FG-46 HX1	Polyol	46	7.4	135	270	-45
LEXOLUBE FG-68 HX1*	Polyol	68	10	130	300	-40
LEXOLUBE FG-100 HX1*	Polyol	100	12	120	300	-35
LEXOLUBE FG-220 HX1*	Polyol	220	19	100	300	-25
LEXOLUBE FG-350 HX1*	Polyol	350	25	90	300	-15

Features

- ▶ Thermal/oxidative stability
- ▶ Low volatility
- ▶ High flash point
- ▶ Clean performance
- ▶ Low temperature fluidity
- ▶ Biodegradable

Applications

- ▶ H1 Oven/Freezer conveyor chain oils
- ▶ H1 Compressor and Gear oils
- ▶ H1 Grease
- ▶ H1 Hydraulic fluids
- ▶ Meets FDA 21.CFR 178.3570
- ▶ Kosher/Halal grades available

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

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