ZSCHIMMER & SCHWARZ

lexolube synthetic esters

Textile and Fiber Technical Data Sheet

Synthetic esters are used in the textile industry to lubricate the machinery and the fibers themselves. Fibers move through textile processing equipment at very high speeds, creating the opportunity for friction that will cause wear on stationary parts, and can snag and break the fibers. A good lubricant will reduce heat, friction and wear on high speed spindles and bearings, allowing the machines to be run faster with less down time.

Clothing, carpet and other textiles are appearance based products, so the color, look and feel are critical in the textile industry. Lubricants cannot interfere with the appearance of the finished product so they must wash or bake off cleanly and leave no residues that affect dyeing or other post-processing steps. A textile lubricant should not absorb into or stain the fiber or form varnish on the machine.

Different operations and fiber types require specific lubricants, so a variety of esters are used in the textile industry. The fiber lubricant is typically either a neat ester or an aqueous emulsion. Zschimmer & Schwarz has a long history of providing ingredients for both neat esters and spin finish emulsions for the textile industry and can recommend the appropriate solution for any type of fiber lubrication

Synthetic Ester	Chemistry	Viscosity @40 ℃(cSt)	Viscosity @100 °C(cSt)	Viscosity Index	Flash Pt. (℃)	Pour Pt. (℃)
Lexolube IPP	Monoester	5	2	n/a	165	12
Lexolube NBS	Monoester	6	2	200	195	20
Lexolube 2I-214	Polyol ester	6	2	125	190	-60
Lexolube EHP	Monoester	9	3	165	220	0
Lubricit 2-EHS	Monoester	10	3	170	220	5
Lexolube 3I-310	Polyol ester	14	3	120	230	-65
Lexolube B-109	Monoester	17	4	160	230	5
Lubricit TMP C9	Polyol ester	21	5	140	285	-30
Lubricit PE 49	Polyol ester	33	6	150	315	-45
Lubricit TMP THCFA	Polyol ester	37	7	155	300	-15

Synthetic ester features

- Excellent Lubricity
- Washes clean
- Non-Staining
- Low smoke
- Low absorption
- Narrow boiling range
- High temperature stability

Textile emulsifiers

- Mulsifan 300 DL- HLB 8.2
- Mulsifan 400 DL- HLB 10.0
- Mulsifan 400 DO- HLB 8.3
- Mulsifan 400 MHCFA- HLB 13.2
- Mulsifan 400 ML- HLB 13.3
- Mulsifan 400 MP- HLB 14.3
- Mulsifan 600 DO- HLB 10.3

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