

Textile and Fiber Technical Data Sheet

Synthetic esters are used in the textile industry to lubricate and protect both fibers and machinery. Fibers move through textile processing equipment at very high speeds, creating friction and heat that causes wear of stationary parts and degradation of the fibers. A good lubricant will reduce heat, friction and wear on high speed spindles and bearings, allowing the machines to run faster with less down time due to fiber breaks and snags.

Synthetic ester lubricants will not have negative impact on the color, look or feel of clothing, carpet or other textiles. They can be easily removed by washing or baking, leaving no residue that can impact dyeing or post-processing. A textile lubricant should not stain the fiber or form varnish on the machine.

A variety of esters are used in the textile industry to address the many different types of fibers and mechanical operations. Zschimmer & Schwarz has a long history of providing components for both neat esters and spin finish emulsions for the textile industry, and can recommend the appropriate solution for any type of fiber lubricant application.

Synthetic Ester	Chemistry	Viscosity @ 40°C (cSt)	Viscosity @ 100°C (cSt)	Viscosity Index	Flash Pt. (°C)	Pour Pt. (°C)
LEXOLUBE IPP	Monoester	5.0	2.0	275	170	10
LEXOLUBE 2I-214	Polyol	5.5	1.9	n/a	190	-70
LEXOLUBE NBS	Monoester	6.5	2.2	195	195	20
LUBRICIT 2-EHC16	Monoester	9.0	2.7	165	215	0
LUBRICIT 2-EHS	Monoester	10	2.9	170	220	5
LEXOLUBE 3I-310	Polyol	14	3.4	120	230	-65
LUBRICIT TMP C9	Polyol	21	4.6	140	275	-50
LUBRICIT PE 49	Polyol	33	6.3	140	300	5
LUBRICIT TMP THCFA	Polyol	37	7.2	160	300	5
LEXOLUBE CPE-70	Complex	68	11	150	280	-15
LEXOLUBE CPE-220	Complex	220	30	160	300	-15
LEXOLUBE CP-460LC	Complex	460	46	160	290	-25

Features

- Excellent lubricity
- Non-staining
- Clean wash-off
- Low absorption
- Narrow boiling range
- Low smoke
- High temperature stability

Complimentary textile emulsifiers

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

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

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