

LUBRICANTS

SYNTHETIC ESTER BASE STOCKS AND METAL- WORKING ADDITIVES

Product line
and services



ZSCHIMMER & SCHWARZ

PRODUCT LINE AND SERVICES

The Lubricants Division of Zschimmer & Schwarz manufactures base stocks, additives and private-label lubricants that ensure the safe and efficient operation of equipment and industrial processes. We offer a wide range of synthetic esters that can be selected to meet the demanding requirements of industrial, automotive, marine and dielectric applications.

When challenging operating environments require a lubricant that is eco-friendly, food-safe, fire-resistant or bio-derived, we deliver high-performance components and formulated fluids. The division also produces a variety of specialty additives that reduce friction, prevent corrosion and emulsify components in water-based metalworking fluids.

PRODUCTS

- ▶ ESTERTEC® (VSP esters)
- ▶ LEXOLUBE® (specialty synthetic esters)
- ▶ LUBRICIT® (high-performance esters)
- ▶ MULSIFAN (non-ionic surfactants)
- ▶ PHOSPHETAL (EP/AW/surfactants)
- ▶ CUBLEN (EP/AW/chelating agents)
- ▶ PURTON (corrosion inhibitors)

CHEMISTRY

- ▶ Monoesters, diesters
- ▶ Polyol esters, complex esters, polymeric esters
- ▶ Aromatic esters
- ▶ Glyceryl esters, sorbitan esters
- ▶ Phosphate esters, phosphonates
- ▶ PEG/PPG esters
- ▶ Carboxamides

FUNCTIONALITY

- ▶ Eco-friendly, biogenic, biodegradable base stocks
- ▶ Polarity for deposit prevention and seal conditioning
- ▶ Lubricity, antiwear, friction reduction, energy efficiency
- ▶ Dielectric insulation and heat transfer
- ▶ Surfactants, nonionic and anionic emulsifiers
- ▶ Corrosion inhibition
- ▶ Chelating agents, emulsion stabilizers

APPLICATIONS

- ▶ **Industrial lubricants:** gear/chain, hydraulic, compressor
- ▶ **Metalworking:** forming, cutting, grinding, polishing
- ▶ **Agriculture/forestry:** tractor hydraulic, gear, grease
- ▶ **Driveline:** PCMO, HDDEO, ATF, MTF, AGO, grease
- ▶ **Marine:** stern tube, bearings, wire ropes
- ▶ **NSF food grade:** Kosher, Halal applications
- ▶ **Dielectric fluids:** transformer oil, immersion cooling, EVs

lexolube
synthetic esters



For further information, please visit zslubes.com

ESTERTEC®, LEXOLUBE® and LUBRICIT® are tradenames of companies of the Zschimmer & Schwarz Group.

EsterTec
synthetic esters



SERVICES

Application technology support

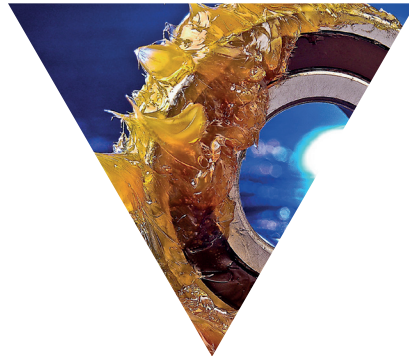
- ▶ Tribology studies:
friction, wear, extreme pressure, tapping torque
- ▶ Stability measurements:
oxidative, thermal, hydrolytic, volatility
- ▶ Performance properties:
foam, demulsibility, corrosion, filterability
- ▶ Physical properties:
viscosity, flash/fire/pour points

Registrations

- ▶ NSF H1/HX-1
- ▶ Factory Mutual fire resistance
- ▶ EU Ecolabel/LuSC/VGP/VIDA
- ▶ IEC electrotechnical compliance
- ▶ Kosher – Halal
- ▶ USDA BioPreferred®

Fluid formulation

- ▶ Specialty performance levels
- ▶ Private-label products





ZSCHIMMER & SCHWARZ

Chemistry tailor-made

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