

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. It offers a wide range of synthetic esters that can be selected to meet the demanding requirements of industrial, automotive, aviation and marine 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 waterbased metalworking fluids.

PRODUCTS

- ► LEXOLUBE® (specialty synthetic esters)
- ► LUBRICIT® (high-performance esters)
- ► MULSIFAN (nonionic surfactants)
- ► PHOSPHETAL (EP/AW/CI/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 base stocks
- Deposit/sludge solubility, seal conditioning
- ► Lubricity, antiwear, extreme pressure
- Surfactants, nonionic and anionic emulsifiers
- Corrosion inhibition
- Chelating agents/emulsion stabilizers

APPLICATIONS

- Industrial lubricants:
 gear, hydraulic, compressor, grease, metalworking
- Agriculture/forestry: tractor hydraulic, chains, grease
- Automotive: PCMO, HDDEO, ATF, MTF, grease
- Aviation: turbine engine bearings, hydraulic, grease
- Marine: stern tube, bearings, wire ropes
- Dielectric fluids: transformer oil, immersion coolants







SERVICES

Application technology support

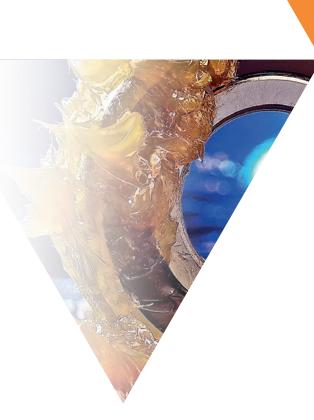
- ► Tribology studies: friction, wear, extreme pressure, tapping torque
- Stability measurements: oxidative, thermal, hydrolytic, volatility
- Performance properties: foam, demulsibility, corrosion, filterability
- Physical properties: viscosity, flash/fire/pour points

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

► AMERICAS

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