

Supplier - SMART OIL

**SmartLub 3598**

*Erucamide ester mixture*

*Water-Based Lub Anti-Rust Co-Emulsifiers*

### Typical Properties

Appearance	Yellow Liquid
Specific Gravity@25°C	0.950 - 1.000
pH Value (5% Water Dilution)	8.5-11.0
Refractive Index (5% Water Dilution)	1.0-1.5

### Product Description

**SMARTLUB 3598** is a multifunctional, bio-based, environmentally friendly lubricant additive that integrates rust prevention, friction modification, boundary lubrication, and extreme pressure (EP) performance. It is suitable for use in a wide range of water-based formulation systems.

**SMARTLUB 3598** features a unique molecular structure. Its long carbon chains provide high oil film strength and excellent boundary lubrication performance, while its polar functional groups enhance adsorption onto metal surfaces, forming a low-shear lubricating film that effectively reduces the coefficient of friction.

**SMARTLUB 3598** exhibits good thermal stability and is suitable for medium- to high-temperature processing conditions. It shows low corrosivity toward non-ferrous metals such as copper and aluminium.

**SMARTLUB 3598** can be used in combination with synthetic esters, phosphate esters, and other additives to generate synergistic effects that enhance anti-wear and extreme pressure performance. It can also replace traditional sulphur- and chlorine-containing EP additives, thereby reducing environmental impact.

**SMARTLUB 3598** has a wide range of applications, including rust preventive oils, high-temperature chain lubricants, emulsions, semi-synthetic fluids, and microemulsion systems.

Print date: 13-06-26

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