

Supplier - SMART OIL

## SmartLub LB6250

*Castor Oil Fatty Acid Ester Compound*

*Lubricity / Anti-wear Booster*

### Typical Properties

Appearance	Amber Liquid
Specific Gravity@25°C	0.900 - 1.000
pH Value (5% Water Dilution)	9.5-11.0

### Product Description

**SMARTLUB LB6250** is a multifunctional, environmentally friendly lubricant additive that integrates rust prevention, friction modification, boundary lubrication, and extreme pressure (EP) performance. It is particularly suitable for a wide range of water-based formulation systems.

**SMARTLUB LB6250** features a unique molecular structure, containing hydroxyl groups (-OH, located at the C-12 position) and unsaturated double bonds. These provide excellent polarity, strong adsorption onto metal surfaces, and superior film-forming capability. It forms a low-shear-strength lubricating film on metal surfaces, thereby significantly reducing the coefficient of friction.

**SMARTLUB LB6250** exhibits good thermal and oxidative stability, making it suitable for medium- to high-temperature processing environments, with low tendency toward carbonization or degradation.

**SMARTLUB LB6250** can be used in combination with synthetic esters, borate esters, phosphate esters, and other additives to generate strong synergistic effects, further enhancing anti-wear and extreme pressure performance. It can also partially or fully replace traditional sulphur or chlorine-containing EP additives, thereby significantly reducing environmental impact.

**SMARTLUB LB6250** has a wide range of applications and can be used as the boosters for viscosity index improvers and pour point depressants to enhance the overall viscosity-temperature performance of base oils.

**SMARTLUB LB6250** is suitable for applications including rust preventive oils, high-temperature chain lubricants, oven chain lubricants, high-temperature hydraulic oils, emulsions, semi-synthetic cutting fluids, and microemulsion systems.

#### Applications

General Application

#### Suggested Treat Rates, %wt

3 - 8

Print date: 18-05-26

*Disclaimer: Information provided by this website and product page including specifications, applications and formulations are based on tests and data supplied by Smart Oil companies, manufacturers or any of our collaborated companies or suppliers, which are believed to be correct and reliable at the time of writing and data update. However, Smart Oil companies, manufacturers or any of our collaborated companies or suppliers make no warranty or responsibility, express or implied, of any kind regarding products, performance, formulations or applications, as operation conditions and application environments are beyond our control, or products will be modified by action of manufacturers or due to change in market environments. Users are herewith expressly requested to conduct test to determine the suitability of our products or product information before use. Furthermore, we regret that we cannot be responsible for informing customers any changes in specifications, formulations, or other technical contents on this website and product page. Also, We hereby state that all product trademarks other than Smart Oil, including trademarks from our , suppliers are the trademarks belong to the respective companies, or from their sources.*