Additin® RC 3502 – Organic Friction Modifier

LANXESS’ new organic friction modifier additive Additin® RC 3502 delivers significantly enhanced friction reduction performance, retention and antiwear protection when needed the most. Our new liquid additive gives lubricant formulators the option to increase fuel economy benefits and reduce the levels of metallic friction modifiers, without compromising fuel efficiency performance.

**Freedom to formulate**

Additin® RC 3502 is a clear, light amber liquid additive. It demonstrates excellent solubility at room and low temperatures (-20°C) in a full range of mineral and synthetic PAO based motor oils: Groups I - V, PCMO and HDDEO.

- Flexible treat rate > 2 % additions allow thermally stable formulations due to excellent solubility (some commercial OFMs exhibit solubility issues < 1%)
- Excellent compatibility with other lubricant additives, including magnesium sulfonate detergents
- Zero sulfated ash, phosphorus and sulfur
- Additin® RC 3502 can be stored up to five years when stored under normal conditions in a cool dry place away from any direct sources of heat and moisture

Solubility in SAE 5W-30 engine oil

OFM1 > 0.5% shows globule residue at bottom of sample vial after 8 hrs mixing both room temp and -20°C

OFM2 1.0% shows insolubility when stored at -20°C for 24 hrs
Additin® RC 3502 – Organic Friction Modifier

Enhanced friction reduction and durability with zero sulfur, phosphorous or metals

Key attributes of Additin® RC 3502 high performance friction modifier

- Demonstrates up to **5% fuel economy improvement** and **retention** in Sequence VI E test (ASTM D8114-17)
- Strong **performance durability** compared to GMO and MoDTC FMs
- Provides a synergistic **boost** in antiwear performance with ZDDP
- Excellent **resistance to deposit formation** at high temperatures (TEOST 33C test)
- Excellent **low Cu, Sn, and Pb corrosion resistance** (ASTM D6594)

Additin® RC 3502
MoDTC FM
GMO

*Fuel economy benefit calculated from sequence VIE engine test FEI sum over SAE 20W-30 baseline.

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Energizing Chemistry

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