



Technical Data Sheet

M57

M57 Friction Reducer

Description:

M57 Friction Reducer is a unique lubricity agent, featuring a negatively charged synthetic ester that tenaciously attaches itself to all metal parts that it comes in contact with inside a machine. The metal in a machine is nearly always positively charged while M57 Friction Reducer is negatively charged. Attachment of a thin layer of M57 Friction Reducer to all metals is natural and not dependent upon temperature, pressure or anything else; except that there must be oil circulation to establish a layer of M57 Friction Reducer on the metal.

M57 Friction Reducer has absolutely no effect on the metal itself. It is not an extreme pressure agent, so it will not corrode the surface of metal as do chlorinated or sulfurized oil additives. It is not a polymer additive so it will not artificially thicken oil. M57 Friction Reducer is pure ester, which has much greater lubricity than oil. It is so effective in reducing friction because it creates a carpet of ester on all of the metal surfaces, preventing metal to metal contact. It can be said that esters slide upon themselves much more freely than what oil does.

When a sufficient amount of esters are added to oil, the result is that the oil becomes as slippery as esters themselves. The unique film provided by the negative polarity of the M57 Friction Reducer attached to positively charged metals is the secret to all of M57 Friction Reducer's benefits over older ester technology.

Performance Characteristics:

- Reduces coefficient of friction
- Improves fuel economy *guaranteed in truck fleets
- Eliminates metal to metal contact
- Reduced operating temperature *
Guaranteed in gearboxes and hydraulics
- Reduced wear
- Reduced machine failures and repair costs
- Reduced noise and vibration
- Protects rubber seals
- Swells seals 1 1/2 % to 3% and then lubricates them to prevent wear
- Reduces oil leakage
- Eliminates corrosion
- Fixes automatic transmission shift cycle
- Cleans sludge and deposits from surfaces
- Prevents rust and corrosion

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Typical Applications and Mixtures

As you can see from the coefficient of friction graph you will reach maximum friction reduction with a treat level (about 5% M57 Friction Reducer. However, if you are interested in seal and 0-ring protection, use M57 Friction Reducer at 7.5%. Do not exceed this dosage.

You should treat any oil lubricated system except air conditioning systems and aircraft.

Even though M57 Friction Reducer is an industrial product, you'll find that small two cycle engines love it. Just add M57 Friction Reducer to your oil before mixing with the fuel. Your automobile, light truck or other personal vehicles will benefit from M57 Friction Reducer in the engine, power steering, automatic or manual transmission and differential.

Dosage:

- 1 Pint (16 fluid oz.) 1.2 oz.
- 1 Quart (32 fluid or) 2.4 oz.
- 2 Quart (64 fluid oz.) 4.8 oz.
- 3 Quarts (96 fluid or) 7.2 oz.
- 4 Quarts (128 fluid or) 9.6 oz.
- 5 Quarts (160 fluid oz.) 2.0 oz.(1.5 cups)
- 6 Quarts (192 fluid or) 14.4 oz.
- 2 Gallons (8 quarts) 19.2 oz.
- 2.5 Gallons (10 quarts) 24.0 oz. (1.5 pints)
- 3 Gallons (12 quarts) 29.0 oz. (almost 1 quart)
- 3.5 Gallons (14 quarts) 33.6 oz.(over 1 quart)
- 4 Gallons (16 quarts) 38.0 oz. (1.2 quarts)
- 5 Gallons (20 quarts) 48.0 oz. (1.5 quarts)