

ARCHOIL AR9100 FRICTION MODIFIER

TECH SHEET

ENHANCED LUBRICATION AND PROTECTION



AR9100 FRICTION MODIFIER is an oil additive based on advanced nanoborate technology suspended in an ester complex. AR9100 is absorbed on metal surfaces where it reduces friction and provides outstanding extreme pressure, anti-wear and anti-corrosion protection to engines, gearboxes and hydraulic systems. AR9100 also helps keep your equipment clean and extends oil life.

ENHANCED LUBRICATION AR9100 improves lubricity by filling surface asperities creating a smooth low friction surface. Nanoborate has a lower shear strength than the metal it bonds to so friction between surfaces is reduced (CoF .037 @ 3,750 lbs in falex test*). This means more power, better fuel economy and less heat from friction. Improved lubricity can also reduce engine noise and vibration as well as improve compression/reduce blowby thanks to a better seal on the piston rings.

AR9100 will raise the TBN (total base number) of the oil it is added to allowing oil to last longer before becoming acidic and needing to be replaced. AR9100's esters resist oxidation, further stabilizing host oil and reducing deposit formation. This extends oil life dramatically, saving money and time.

EXTREME PRESSURE PROTECTION AR9100 forms a resilient solid boundary lubricating film on friction surfaces which provides outstanding extreme pressure and anti-wear protection during extreme operating conditions (falex test failure at 4,000 lbs*) including cold starts, heavy loads and high temperature operating conditions.

AR9100's film quality and strength are enhanced in the presence of extreme pressures and temperatures.

AR9100's solid boundary lubricating film is much more resilient than the soft sacrificial film of zinc based anti wear additives (ZDDP). AR9100 outperforms zinc in heavy duty applications or when breaking in and operating older engines. AR9100's added protection also hugely benefits modern engine oils where zinc levels have been reduced to prevent catalyst poisoning.

*ASTM test: D3233



16oz bottle - \$44.95
Treats up to 16 quarts of engine oil

FORD POWERSTROKE APPLICATION



AR9100 fixes injectors in Ford PowerStroke 6.0L and 7.3L trucks and other HEUI injection vehicles (Navistar T444E and VT365) by cleaning and lubricating stuck spool valves.

Stiction is eliminated along with associated cold start problems including rough idling, cylinder misfires and loss of power and acceleration.

We are so confident in these results we offer a 100% money back guarantee if our product does not eliminate stiction issues within 100 miles.

(866) 537-7383

BUILDING 6E, 115 HURLEY ROAD
OXFORD, CT 06478



archoil[®]
WWW.ARCHOIL.COM

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TREAT RATE

For engine oil treat at a rate of 1.2 oz per qt. Use 16 oz to treat Ford PowerStroke 6.0L and 7.3L.

3.2 oz per quart for gear oil and hydraulic fluid.

1.2 oz per quart for limited slip differentials.

Add 1 oz to power steering fluid.

SPECIFICATIONS

Color Brown Liquid

Base Fluid Fatty Acid Ester

Viscosity 150 SUS at 100°F

Flashpoint 410F (Cleveland Cup)



GEORGE SWIFT, JAY LENO AND ARCHOIL'S TIM STEGENGA AT JAY LENO'S GARAGE

ENGINE DEPOSIT REDUCTION

AR9100 will help keep your equipment clean. Nanoborate acts as a mild detergent and esters will impregnate and disperse varnish sludge and carbon deposits.

EXTENDED OIL DRAIN INTERVALS

Oil samples can be used to decide how long to extend your oil drain cycle when using AR9100. You will notice a very high TBN is maintained during the extended drain cycle, indicating the oil has not yet become acidic and there is active additive remaining. Oil drain intervals may be doubled, we see many oil samples taken at 10,000 miles where the oil is still in spec. Oil samples containing AR9100 will show high levels of potassium and boron, this is normal and should not raise concern.

DIESELPOWER

THE WORLD'S LARGEST
DIESEL MAGAZINE

"Seeing this F-350 go from a cold-blooded, rough-running basket case to a truck that ran as smooth as it did the day it left the dealership definitely made believers out of us.

ARCHOIL IS THE REAL DEAL."

Jay Leno's
Garage

"We are seeing great results using Archoil products at Jay Leno's Garage. I highly recommend Archoil products."

- George Swift
Mechanic, Jay Leno's Garage

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