DRIVELINE





Standard tier, with GM Performance and Approvals from ZF, Voith and MAN





HITEC[®] 419 ATF Additive Package

Standard Tier, with GM Performance and Approvals from ZF, Voith and MAN



Key Performance Benefits

HiTEC[®] 419 additive is a versatile package that can be used to formulate high quality Automatic Transmission Fluids in a wide variety of base stocks.

HiTEC[®] 419 additive package contains a shear stable Viscosity Index Improver, enabling ATFs blended with HiTEC[®] 419 to provide significant customer benefits, including:

- Good film thickness resulting in better wear protection
- Improved low temperature performance for reliable cold starting
- Consistent transmission performance under a wider range of operating conditions

 $\rm HiTEC^{\otimes}$ 419 additive is also available with the addition of red dye as $\rm HiTEC^{\otimes}$ 419R additive

Recommended Dosage

The recommended treat-rate for HiTEC[®] 419 is 11.4% wt. in good quality base stocks for conventional Automatic Transmission Fluid applications. It can also be used at a reduced treat-rate of 5.7% wt. for lower performance level applications satisfied by Type A Suffix A (TASA) fluids. Please contact your Afton Chemical representative for specific recommendations.

Approvals



 $\mu\,$ For Ford vehicles of Model Years 2005 and earlier

† Formerly approved

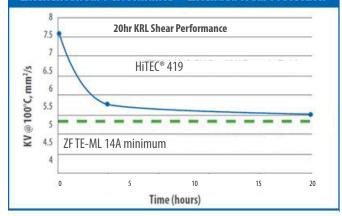
Afton Product Comparison

		Economic	Standard		Premium				Тор
Performance	Benefit	HiTEC [®] 410	HiTEC [®] 419	HiTEC [®] 429	HiTEC [®] 2414	HiTEC [®] 481	HiTEC [®] 2018	HiTEC [®] 4014	Hitec [®] 3491LV
Oxidative stability	Fluid life, lower parts wear	Good	Good	Better	Better	Better	Better	Best	Best
Friction durability	Fluid life	Good	Good	Better	Better	Better	Best	Best	Best
Shear stability	Lower parts wear	Good	Better	Better	Better	Best	Better	Best	Best
Low temp. performance	More efficient cold-starting	Good	Good	Better	Better	Best	Better	Best	Better
Treat-rate	Fluid cost	Best	Best	Better	Better	Good	Good	Good	Good
Range of OEM specs	Inventory, logistics	Good	Good	Better	Best	Best	Good	Good	Better

© 2018. Afton Chemical Corporation is a wholly-owned subsidiary of NewMarket Corporation (NYSE:NEU). HiTEC® is a trademark of Afton Chemical Corporation. 04/18.

The information in this bulletin is, to our best knowledge, sure and accurate, but all recommendations or suggestions are made without guarantee since the conditions of use are beyond our control. Afton Chemical Corporation and its affiliates disclaim any liability incurred in connection with the use of these data or suggestions. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

Excellent Shear Performance = Extended Wear Protection



Typical characteristics

Appearance:	Dark brown liquid
Density at 15°C, g/ml:	0.92
Flash Point (PMCC), °C:	105 min
Kinematic Viscosity at 100°C, mm²/s:	220

Handling Information

Max Handling Temp: 70°C Shelf Life: 18 months at ambient temperature

