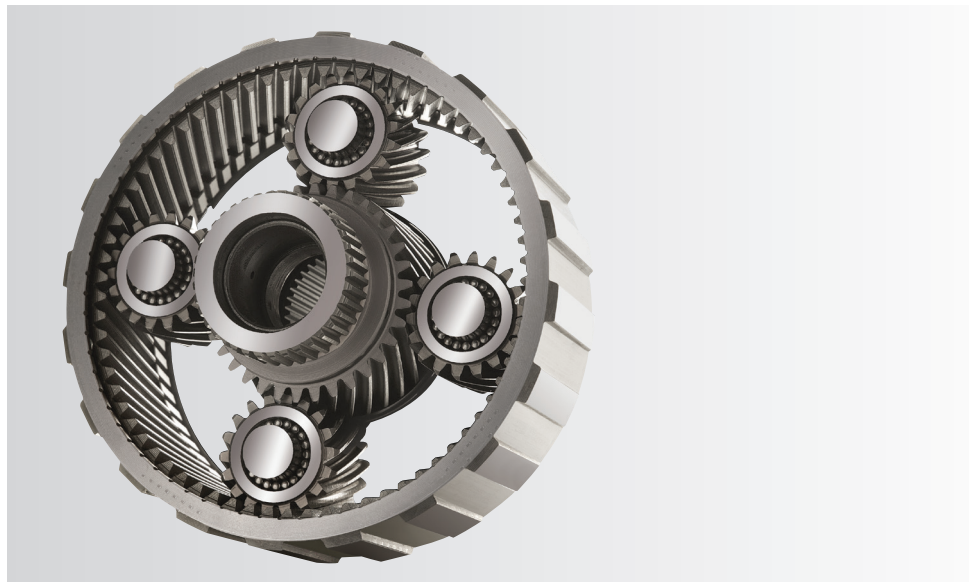


DRIVELINE

HiTEC[®] 2414B

ATF Additive Package



For Shear Stable ATFs With European OEM Approvals

HiTEC® 2414B ATF Additive Package

For Shear Stable ATFs With European OEM Approvals

Automatically First™



Key Performance Benefits

HiTEC® 2414B additive package is shear stable additive used to formulate high quality ATFs in a wide variety of base stocks. ATFs formulated using HiTEC® 2414B carry European OEM Approvals (ZF, Voith, MAN, Daimler) in GM IID and GM IIH formulations. HiTEC® 2414B additive package provides additional customer benefits in terms of:

- Compatibility in a wide range of base stocks
- Friction retention, improving clutch durability
- Load carrying and oxidation performance, which extends fluid life and provides transmission protection
- Approvals from all the major commercial vehicle AT manufacturers (ZF, Voith, Allison)
- Core technology approvals by Ford, GM, MB, VW and ZF for passenger car applications

Recommended Dosage

The recommended treat-rate for HiTEC® 2414B is 11.9% wt. in good quality base stocks for most conventional North American and European OEM Automatic Transmission Fluid applications. Please contact your Afton Chemical representative for specific recommendations.

Approvals

ALLISON TES-228 (C-4)	Ford Pre-2005 ^μ	GM IID ^α II E ^λ	GM IIIG ^α	GM IIH ^β	MAN 3391 L1, L2	MAN 339 Z1, V1	MB 236.1	MB 236.9	MOPAR +3	TASA	VOITH H55.6335	VOLVO CE 973-40	VOLVO CE 973-41	ZF TE-ML 02F	ZF TE-ML 03D	ZF TE-ML 05L, 21L	ZF TE-ML 09	ZF TE-ML 11A, 11B	ZF TE-ML 04D, 14A	ZF TE-ML 17C
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Product	ATF Specifications																					
HiTEC® 2414B	3	3	3	3	3	1	1	1	1	1	3	3	1	3	1	3†	1	2	2	3	1	1

Product Status

- Approved
- Meets Requirement

Specification Status

- 1 Formal Approval
- 2 Self Certifying
- 3 Obsolete

Notes

- Ω For GM vehicles of Model Years 1990 and earlier
- λ For GM vehicles of Model Years 1993 and earlier
- α For GM vehicles of Model Years 2003 and earlier
- β For GM vehicles of Model Years 2006 and earlier
- μ For Ford vehicles of Model Years 2005 and earlier
- † Formerly approved

Afton Product Comparison

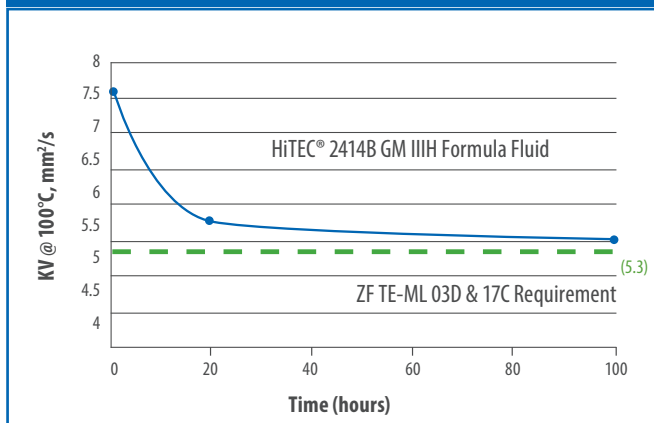
Performance	Benefit	Economic	Standard		Premium			Top	
		HiTEC® 410	HiTEC® 419	HiTEC® 429	HiTEC® 2414	HiTEC® 481	HiTEC® 2018	HiTEC® 4014	HiTEC® 3491LV
Oxidative stability	Fluid life, lower parts wear	Good	Good	Better	Better	Better	Better	Best	Best
Friction durability	Fluid life	Good	Good	Better	Better	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

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Excellent Shear Performance = Extended Wear Protection



Typical Characteristics

Appearance:	Dark brown viscous liquid
Density at 15°C, g/ml:	0.92
Flash Point (PMCC), °C:	105 min
Kinematic Viscosity at 100°C, mm²/s:	250

Handling Information

Max Handling Temp: 80°C
Shelf Life: 18 months at ambient temperature