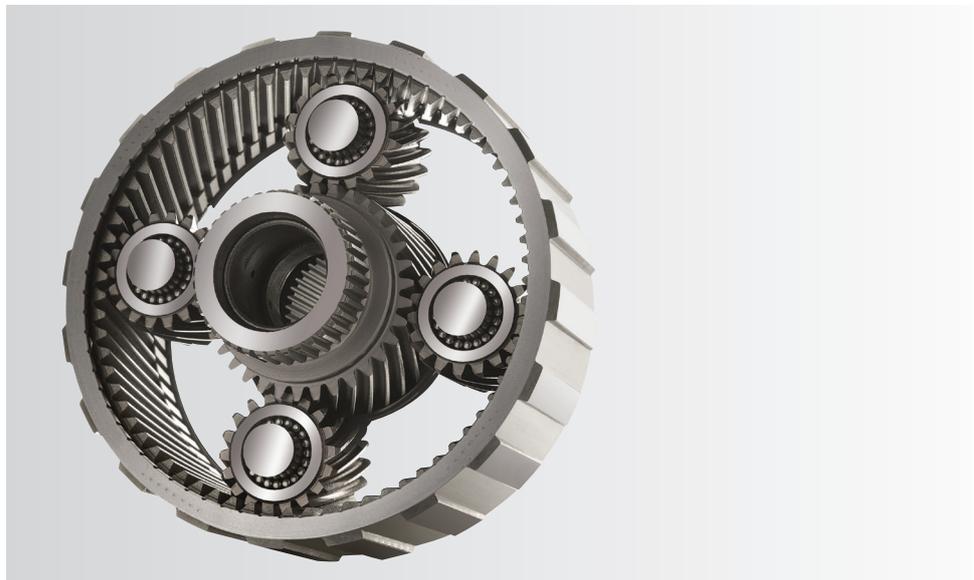


DRIVELINE

HiTEC[®] 429 ATF Additive Package



Standard Tier, With GM Performance and Passenger Car Approvals
From ZF and MB

HiTEC® 429 ATF Additive Package

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Automatically **First**™



Key Performance Benefits

HiTEC® 429 additive is a versatile package that can be used to formulate high quality Automatic Transmission Fluids in a wide variety of base stocks.

HiTEC® 429 additive has an extensive range of OEM approvals, enabling ATFs blended with HiTEC® 429 to provide significant customer benefits, including:

- OEM approvals in all Group I formulations
- Good low temperature performance
- Longer drain intervals
- Longer fluid life

Recommended Dosage

The recommended treat-rate for HiTEC® 429 additive is 14.0% wt. for Ford and GM vehicles of model years 2003 and earlier, plus Allison C-4 and European OEM performance levels. Please contact your Afton Chemical representative for specific recommendations.

Approvals

Product	ATF Specifications
ALLISON TES-228 (C-4)	3+
ALLISON TES-389	1
Ford Pre-2005 ^μ	3+
GM/D ^λ 1E ^λ	3
GM/JIG ^α	3+
MAN 339 L1, L2	1
MAN 339 Z1, V1	1
MB 236.1	1
CHRYSLER +3	3
TASA	3
VOITH HS-6335	1
VOLVO CE 97340	3
VOLVO CE 97341	1
ZF TE-ML 03D	2
ZF TE-ML 05L, 21L	2+
ZF TE-ML 09	3+
ZF TE-ML 11A, 11B	1
ZF TE-ML 04D, 14A	1
ZF TE-ML 7C	1

Product Status

- Approved
- Meets Requirement
- Suitable for Use

Specification Status

- 1 Formal Approval
- 2 Self Certifying
- 3 Obsolete

Notes

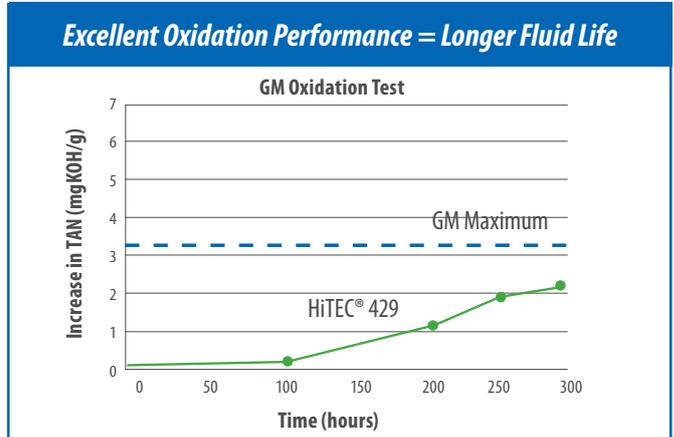
- Ω For GM vehicles of Model Years 1990 and earlier
- λ For GM vehicles of Model Years 1993 and earlier
- α For GM vehicles of Model Years 2003 and earlier
- μ For Ford vehicles of Model Years 2005 and earlier
- † Formerly approved

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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Typical Characteristics

Appearance:	Dark brown viscous liquid
Density at 15°C, g/ml:	0.921
Flash Point, °C (PMCC):	177 min.
Kinematic Viscosity at 100°C, mm ² /s:	320

Handling Information

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