## DRIVELINE

# HITEC® 481 Automatic Transmission Fluid



ZF and Voith Extended Drain Approvals, Plus GM IIIH, Ford MERCON® V and Allison C-4 Approvals





### **HITEC®** 481 Automatic Transmission Fluid



ZF and Voith Extended Drain Approvals, plus GM IIIH, Ford MERCON® and Allison C-4 Approvals

#### **Key Performance Benefits**

HiTEC® 481 is an Automatic Transmission Fluid with a significant number of OEM service fill approvals, including ZF TE-ML 14B and Voith H55.6336 extended drain approvals.

HiTEC® 481 provides many end-user benefits including:

- Excellent low temperature properties
  - delivering improvement in cold start performance
- Good shear stability
- Excellent thermal and oxidative stability
  - improved component protection and cleaner transmissions
- Superior corrosion and wear protection
  - extended life for critical parts
- Friction Durability and Retention
  - leading to enhanced driver comfort and extended clutch life

#### **Typical Characteristics**

Appearance: Clear red liquid

Density at 15 °C, g/ml: 0.853
Kinematic Viscosity at 100 °C, mm²/s: 7.7
Flash Point, °C (PMCC): 135 min.
Brookfield Viscosity at -40 °C, mPa.s: 11,000

#### **Handling Information**

Max Handling Temp: 60°C

Shelf Life: 60 months at ambient temperature

#### **Recommended Dosage**

HiTEC® 481 is a finished fluid.

#### **Approvals**



**Product Status** 

Approved

Meets RequirementSuitable for Use

Specification Status

1 Formal Approval 2 Self Certifying

3 Obsolete

#### Notes

 $\Omega$  For GM vehicles of Model Years 1990 and earlier

- λ For GM vehicles of Model Years 1993 and earlier
- $\alpha\,$  For GM vehicles of Model Years 2003 and earlier  $\beta\,$  For GM vehicles of Model Years 2006 and earlier
- μ For Ford vehicles of Model Years 2005 and earlier
- † Formerly approved

#### **Afton product comparison**

		Economic	Standard		Premium				Тор
Performance	Benefit	HiTEC <sup>®</sup> 410	HiTEC <sup>®</sup> 419	HiTEC® 429	HiTEC <sup>®</sup> 2414	HiTEC <sup>®</sup> 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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