

**INDUSTRIAL | HYDRAULIC**

## **HiTEC® 521F**

**Antiwear Hydraulic Additive Package**



Designed For Modern Hydraulic High Pressure Pumps  
And Systems



 **Afton**  
CHEMICAL  
Passion for Solutions®



## HiTEC® 521F Antiwear Hydraulic Additive Package

Designed For Modern Hydraulic High Pressure Pumps And Systems

### Application

HiTEC® 521F antiwear hydraulic additive is a premium package designed to meet or exceed the performance requirements of all major hydraulic equipment manufacturers and industry organization specifications. It is designed for the requirements of today's modern hydraulic high pressure pumps and systems. In a finished hydraulic fluid, HiTEC® 521F has the capability to provide performance reserve, leading to long oil and filter life and ensuring unsurpassed equipment protection. It contains a defoamant which is designed to work with Group I and II base oils.

### Key Performance Benefits

- Excellent oxidation stability
- Capable to extend the oil drain interval
- Good sludge and particulate control
- Improved filterability and consequently less downtime
- Improved protection of critical components with tight tolerances
- Superior wear protection for maximum equipment life
- Greater energy saving potential
- Excellent hydrolytic stability for improved protection and extended life of yellow metal parts of the equipment
- Foam performance precludes the need to purchase a separate foam inhibitor

### Recommended Dosage

The recommended treat rate for HiTEC® 521F is 0.85% by weight. Higher and lower doses may also be used depending on the required performance claims and the base oil. Please contact your Afton Chemical representative for specific recommendations.

### Typical Characteristics

Appearance	Dark brown oily liquid
Density, lbs/gal.	8.58
Specific Gravity @ 15.6/15.6°C	1.031
Viscosity at 40°C, cSt	98
Flash Point °C, (PMCC)	125 min.

### Handling Information

Max Handling Temp: 75°C  
Shelf Life: 24 months @ ambient temperature

### Performance Profile

HiTEC® 521F is capable of meeting the following specifications:

- Parker (formerly Denison) HF-0, HF-1, HF-2 (HM, HV)
- Eaton M-2950-S and I-286-S3
- MAG P68, P69, P70 (HM, HV)
- DIN 51524-2 (HM); DIN 51524-3 (HV)
- ISO 11158 (HM, HV)
- ASTM D6158 (HM, HV)
- SAE MS 1004 (HM, HV)
- Bosch Rexroth RE 90220
- JCMAS P041 HK Hydraulic specification
- ANSI/AGMA 9005-E02-R0
- GM LS-2
- AIST 126, 127
- SEB 181222

In addition, HiTEC® 521F may be used to formulate multigrade hydraulic oils for use in the mobile sector where pressures tend to be higher and temperature variations greater than often seen in industrial facilities. A suitable viscosity index improver such as HiTEC® 5785B PMA VII must be used in order to formulate such fluids.

### Scuffing Wear\*



Commercial AWHO



HiTEC® 521F Technology

### Wear Durability\*

Commercial AW Hydraulic Oil

Failed

HiTEC® 521F Technology

Passed test (3x test length)

TIME