

# VISCOSITY MODIFIERS

## **HiTEC<sup>®</sup> 5748**

**Non-Dispersant Olefin Copolymer VM**



Versatility and logistical simplicity across multiple applications

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### Application

HiTEC<sup>®</sup> 5748 is recommended for use in industrial, gasoline and diesel crankcase lubricants, particularly when excellent shear stability is desired, or in motorcycle applications.

HiTEC<sup>®</sup> 5748 can also be used in grease applications to provide structural stability and reduce the soap content.

### Key Performance Benefits

- Single VM for multiple applications
- Logistical simplicity
- Excellent shear stability requirements
- Proven in the field
- Exceeds Bosch stay-in-grade shear stability requirements
- Surpasses Sequence VIII stay-in-grade requirements
- Robust low-temperature properties

### Recommended Dosage

Dosages of HiTEC<sup>®</sup> 5748 generally necessary to make multigrade crankcase oils which meet the 10 hour L-38 stay-in-grade requirements are given below, with CMCC (DIN 51382) stay-in-grade recommendations in parentheses:

SAE Grade	5W30	10W30	10W40	15W40	20W50
HiTEC <sup>®</sup> 5748 (vol.)	8.0%	5.7%	11.6%	5.4%	5.4%
	(8.0%)	(5.8%)	(11.8%)	(5.5%)	(5.5%)

Please contact your Afton Chemical representative for specific recommendations.

### Typical Characteristics

Appearance:	Clear to slightly hazy greenish tan viscous liquid
Specific Gravity @ 15.6/15.6°C:	0.855
Flash Point, °C (PMCC):	135 min.
Kinematic Viscosity @ 100°C, cSt:	1100
Color, ASTM D1500:	3.0 max.
Dilute Viscosity @ 100°C, cSt:	11.55
Shear Stability Index %:	22

### Handling Information

Max Handling Temp: 250°F (120°C)

Shelf Life: 36 months @ 10 – 40 °C

HiTEC<sup>®</sup> 5748 can be used with various engine oils, selected off-road, and grease applications making it highly versatile:



Licensable PCMO applications from API SL to OEM applications such as MB 229.5



Licensable HDEO applications from API CH-4 to OEM applications such as MB 228.51



JASO compliant for MCO applications from API SG to API SN quality



Fit for use for selected off-road applications



Used in grease applications to provide structural stability and reduce soap content