

COMPONENTS

HiTEC[®] 6005 Solid Viscosity Modifier



Premium Viscosity Modifier for Use in Demanding Engine Oil Applications

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Key Performance Benefits

HiTEC[®] 6005 solid viscosity modifier is recommended for use in demanding PCMO and HDEO applications where enhanced engine performance, protection and durability over an extended drain interval is required.

It delivers better cleanliness and oil consumption benefits compared to conventional viscosity modifiers and enables modern cars, commercial vehicles and equipment to run longer under more severe conditions.

HiTEC[®] 6005 additive delivers a broad range of customer benefits:

- Extremely shear stable technology to minimize viscosity drop and power losses throughout the drain interval
- Minimum volatility losses, reducing the need for group III or group IV base stocks trim and overall formulation cost
- Superior thickening power at an optimized treat-rate for better deposit control
- Excellent oxidation stability addressing the latest Industry and OEM requirements
- Enables the formulation of low viscosity grade, low HTHS engine oils, which can deliver fuel economy benefits compared to higher viscosity grades engine oils

Recommended Dosage

HiTEC[®] 6005 is typically used to manufacture stay-in-grade multigrade engine oils as measured in KO Shear test. HiTEC[®] 6005 may be dissolved in a wide range of base oils at 15.0% wt. to produce a liquid HiTEC[®] 6005 Viscosity Modifier.

The following chart includes typical treat-rates for HiTEC[®] 6005 diluted in group III base oils:

SAE Grade	0W-20	5W-30	5W-40	10W-40
HiTEC [®] 6005 % wt. *	4.0	6.0	8.5	6.0

*15% HiTEC[®] 6005 in group III base oils

Please contact your Afton Chemical representative for specific treat-rate recommendations.

Typical Characteristics

Appearance:	Yellow solid crumb
Thickening Power, cSt ⁽¹⁾ :	3.7 min.
Moisture, wt%:	1.0

⁽¹⁾ 1 wt% polymer in a 91.65 : 7.35 mass ratio of RBR-10136-A and 150N Oil.

Handling Information

Max Storage Temp:	30°C
Max Dissolving Temp:	150°C with Nitrogen Blanketing
Shelf Life:	60 months