

ENGINE OILS

HiTEC® 11183

Passenger Car Engine Oil Additive



Delivering Optimum Protection for the Latest
Engine Designs with ILSAC GF-6, API SP and
GM dexos™ 1 Gen 3 Approval Capability

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Application

HiTEC® 11183 is a new, upgraded additive technology to meet the combined performance requirements of both the ILSAC GF-6 specification and the new GM dexos™1 Gen 3 approval. HiTEC® 11183 is an enhanced version of HiTEC® 11180, which comfortably exceeded the demands of the ILSAC GF-6 specification and provided market leading engine protection for the latest turbo-charged gasoline direct injection (TGD_i) engine designs.

HiTEC® 11183 maintains that standard and is specifically designed to meet the more stringent demands of the new GM dexos™1 Gen 3 specification for superior premium grade application. The new specification is the most demanding variant of dexos™1, with new GM performance tests in terms of pre-ignition control and vehicle fuel economy, but also additional demands for engine cleanliness and wear that exceed the ILSAC GF-6 requirements.

To meet the new dexos™1 demands, individual formulations have to be qualified and approved by GM according to a rigorous test protocol, reviewed and audited by GM, each viscosity grade being defined by a specific approved composition that exactly matches the tested oil. HiTEC® 11183 has been qualified and approved according to these GM rules and offers approved formulations in SAE 0W-20, 5W-20, and 5W-30 grades in select industry base oil combinations.

For specific details of the range of approved formulations that can be supported with this technology, please contact your Afton Chemical representative.

Key Performance Benefits

- Fully meets the industry license requirements of the ILSAC GF-6 specification for applicable engine warranty protection in all ILSAC viscosity grades, including the SAE 0W-16 grade defined by ILSAC GF-6B
- Fully qualified against the API SP specification in a wide range of viscosity grades, including niche wide multigrades, with broad base oil qualification coverage for formulation flexibility
- Meets formal GM dexos™1 Gen 3 approval requirements in SAE 0W-20, 5W-20, and 5W-30 grades in selected industry base oil combinations
- Maintains the industry leading engine wear performance of previous generation Afton technologies with enhanced control of pre-ignition under steady-state, transient, or extended-drain conditions for optimum engine protection.

Other Specifications

- Ford WSS-M2C960-A1 (SAE 5W-20)
- Ford WSS-M2C961-A1 (SAE 5W-30)
- Ford WSS-M2C962-A1 (SAE 0W-20)
- Ford WSS-M2C963-A1 (SAE 0W-30)

Recommended Dosage

HiTEC® 11183 is used at 10.1% wt. to formulate all recommended grades and approved oils. Please contact your Afton Chemical representative for specific formulation recommendations.

Typical Characteristics

Appearance	Dark brown viscous liquid
Specific Gravity @ 15.6/15.6°C	0.966
Density, lb/gal.	8.05
Viscosity @ 100°C, cSt	80
Flash Point, °C (PMCC)	135 min.

Handling Information

Max Handling Temp: 70°C
Shelf Life: 3 months @ 50°C, 36 months @ ambient (10-40°C)

Performance Summary HiTEC® 11183

