# ENGINE OILS

HiTEC<sup>®</sup> 12210M Heavy Duty Additive Package



Blended to Formulate Mainline Heavy Duty Diesel Engine Oils







# HITEC® 12210M Heavy Duty Additive Package

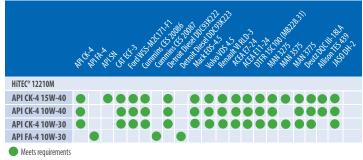
Blended to Formulate Mainline Heavy Duty Diesel Engine Oils

### Application

HiTEC<sup>®</sup> 12210M is a dispersant inhibitor package for use in mainline heavy duty diesel engine oils. This package, when used with our OCP Viscosity Modifiers, HiTEC<sup>®</sup> 5748A or HiTEC<sup>®</sup> 5748, fully meets the following API licensing requirements.

- API CK-4 in SAE 15W-40, 10W-40 and 10W-30
- API FA-4 in SAE 10W-30

HiTEC<sup>®</sup> 12210M already contains a pour point depressant (PPD) so no supplemental PPD should be needed to meet low temperature properties. This robust additive package not only meets API credentials, but is also designed to meet the latest original equipment manufacturer (OEM) performance specifications in appropriate grades and base stocks.



Approvals/Claims are specific for each formulation. Any change in the base oil/additive percentage could affect the accuracy of these approvals/claims. Contact Afton's customer technical service for further information.

For specific formulation recommendations and licensing details, please contact your Afton Chemical representative.

#### **Recommended Dosage**

At the recommended treat rate of 18.0% wt., HiTEC<sup>®</sup> 12210M can be used to formulate both API CK-4 in SAE 15W-40, 10W-40 and 10W-30 grades as well as API FA-4 SAE 10W-30 in a range of market basestocks.

In addition, HiTEC<sup>®</sup> 12210M CK-4 blended oils are backwards compatible at the same 18.0% wt. treat rate to API CJ-4, CI-4+, CI-4 and CH-4 performance claims under current licensing guidelines.

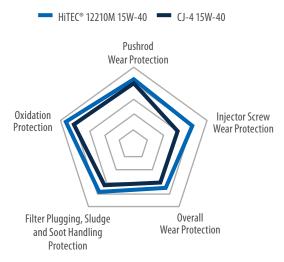
#### **Typical Characteristics**

Appearance	Dark brown
Density, lbs/gal.	7.90
Specific Gravity @ 15.6/15.6°C	0.948
Viscosity @ 100°C, cSt	108
Flash Point, °C (PMCC)	135 min.
TBN, mg KOH/g	55

#### Handling Information

Max Handling Temp: 70°C Shelf Life: 3 months @ 45°C, 36 months @ ambient (10-40°C)

## Afton CK-4 vs. CJ-4 Performance Comparison



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