ENGINE OILS

HiTEC[®] 12210M Heavy Duty Additive Package



Blended to Formulate Mainline Heavy Duty Diesel Engine Oils





HITEC® 12210M Heavy Duty Additive Package

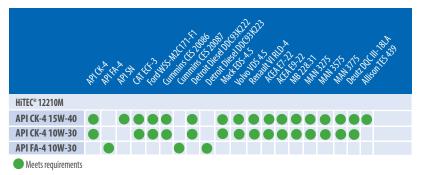
Blended to Formulate Mainline Heavy Duty Diesel Engine Oils

Application

HiTEC[®] 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[®] 5748A or HiTEC[®] 5748, fully meets the following API licensing requirements.

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

HiTEC[®] 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.



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[®] 12210M can be used to formulate both API CK-4 SAE 10W-30 and 15W-40 grades as well as API FA-4 SAE 10W-30 in a range of market basestocks.

In addition, HiTEC[®] 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.

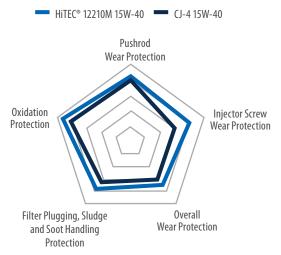
Typical Characteristics

| Dark brown |
|------------|
| 7.90 |
| 0.948 |
| 108 |
| 135 min. |
| 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



© 2022. Afton Chemical Corporation is a wholly owned subsidiary of NewMarket Corporation (NYSE:NEU). HiTEC® is a trademark of Afton Chemical Corporation. 03/22.

The information in this bulletin is, to our best knowledge, sure and accurate, but all recommendations or suggestions are made without guarantee since the conditions of use are beyond our control. Afton Chemical Corporation and its affiliates disclaim any liability incurred in connection with the use of these data or suggestions. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

