COMPONENTS

HiTEC® 5850B Olefin-based VI Improver Polymer in Soluble Wrapper



For Use in Crankcase and Industrial Oils & Greases





HITEC® 5850B Olefin-based VI Improver Polymer in Soluble Wrapper

For Use in Crankcase and Industrial Oils and Greases

Application

HiTEC[®] 5850B olefin-based VI improver polymer is recommended for use in the manufacture of liquid NDOCP VI improvers for use in formulating crankcase and industrial oils and greases. For grease applications, HiTEC[®] 5850B is typically used to provide improved tackiness, structural stability and improved yield. It is packaged in an oil soluble wrapper that does not need to be removed during the grinding and solubilizing process. It's amorphous characteristics result in robust low temperature properties and low pour point dosage requirements.

Key Performance Benefits

- Easy to handle in solid form
- Can be further sheared down to increase the shear stability
- Improved tackiness/structural stability (Grease)

Recommended Dosage

HiTEC® 5850B dosage will vary depending on desired finished oil properties. For blending purposes, HiTEC® 5850B polymer is typically handled as a viscous polymer-in-oil VI improver concentrate. Preparation of the concentrate involves polymer granulation followed by its solubilization in a suitable base oil. Mixing the concentrate for four hours at 150°C with nitrogen blanketing is typically required. Treat rates for grease are typically 0.1 to 1.0 wt. %.

Please contact your Afton Chemical representative for specific dosage recommendations.

Typical Characteristics

Pale white to amber polymer
51
1.0 max.
49
52
13.0 cSt
8.05

Handling Information

Max Dissolving Temp: 150°C with nitrogen blanket Shelf Life: 36 months @ ambient temperature

¹Mooney Viscosity ML 1+4, 100°C ² 1% HiTEC° 5850B in 4.95 @ 100°C oil

© 2020. Afton Chemical Corporation is a wholly owned subsidiary of NewMarket Corporation (NYSE:NEU). HiTEC® is a trademark of Afton Chemical Corporation. 09/20

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.

