COMPONENTS

HiTEC® 5850A

Olefin-based VI Improver Polymer in Soluble Wrapper

For Use in Crankcase and Industrial Oils

Afton® CHEMICAL
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Application

HiTEC® 5850A 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. 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
- Robust low temperature properties
- Low pour point depressant requirement

Recommended Dosage

HiTEC® 5850A dosage will vary depending on desired finished oil properties. For blending purposes, HiTEC® 5850A 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.

Please contact your Afton Chemical representative for specific dosage recommendations.

Typical Characteristics

Appearance	Off-white greyish, (may be slightly greenish) rubber polymer
Mooney Viscosity[1]	60
Volatiles, % wt.	0.9 max.
Propylene, % wt.	48
Total Ash, % wt.	0.3 max.
Shear Stability Index of Liquid VII, %	52
Diluted Kin. Visc @ 100°C of Liquid VII	13.0 cSt
Thickening Power2, cSt @ 100°C	8.05

Handling Information

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

[1]Mooney Viscosity ML 1+4, 100°C
[2]1% HiTEC® 5850A in 4.95 @ 100°C oil

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