COMPONENTS

HiTEC® 5710

Dispersant Polymethacrylate Viscosity Index Improver



VII Recommended For Low Temperature Properties and Shear Stability, with Dispersancy Characteristics





HITEC® 5710 Dispersant Polymethacrylate Viscosity Index Improver

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Key Performance Benefits

HiTEC® 5710 Viscosity Index Improver is based on dispersant polymethacrylate (PMA) chemistry and is recommended for a range of applications where low temperature properties and shear stability are important. In addition, HiTEC® 5710 additive provides dispersancy which benefits oxidation and cleanliness properties of the lubricant. HiTEC® 5710 additive is particularly suited to automatic transmission fluids and tractor hydraulic fluid formulations.

HiTEC® 5710 additive benefits include:

- The right shear stability to maximize performance and minimize cost in ATF, tractor and other applications
- Facilitates the flexibility to use Group I or II base oils in many applications
- Adds cleanliness properties which may reduce the overall cost of the formulation by lowering the dosage of additional dispersants
- Exceptional low temperature properties even after the lubricant has been subject to oxidation
- Used by OEMs in factory fill applications
- Good handling characteristics

Recommended Dosage

Please contact your Afton Chemical representative for specific recommendations.

Typical Characteristics

Appearance: Clear to slightly hazy yellow to

amber viscous liquid

Density @ 15°C, g/ml: 0.891 Flash Point, °C (PMCC): 120 min. Kinematic Viscosity @ 100°C, mm²/s: 850 Kinematic Viscosity @ 40°C, mm²/s: 6660

Handling Information

Max Short Term Handling Temp: 100°C Shelf Life: 36 months @ ambient temperature

Formul	lation	Examp	les
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Tractor Formulation Example

Component	%, wt.
HiTEC® 8703 Tractor Additive	7.8
HiTEC® 5710 Dispersant PMA	3.7
150N Group I Base Oil	88.5
Total	100

ATF Formulation Example

Component	%, wt.
Performance Additive	6
HiTEC® 5710 Dispersant PMA	3.5
100N Group II Base Oil	90.5
Total	100

Shear Stability							
30 Cycl	30 Cycle Bosch 20 hr. KRL				40 min. Sonic		
P-SSI	% Vis. Loss	P-SSI	% Vis. Loss	P-SSI	% Vis. Loss		
51	19	83	30	79	24		

		70N OII		100N Oil			150N Oil			600N Oil		
HiTEC® 5710, % wt.	0	5	10	0	5	10	0	5	10	0	5	10
Viscosity @ 100°C, mm ² /s	3	6.24	10.84	4.1	8.05	13.69	5.2	10.07	16.82	12.24	20.89	32.12
Viscosity @ 40°C, mm ² /s	12.8	24.8	42.06	20.2	37.06	61.09	30.6	54.14	86.86	114.6	172	245.2
Viscosity Index	88	220	262	95	199	234	99	176	210	97	143	175
Pour Point, °C	-17	-53	-60	-18	-45	-48	-15	-42	-42	-6	-30	-30
Viscosity @ -35°C, CP	-	4270	5330	_	9690	12,400	_	28,250	32,400	_	_	_

