COMPONENTS

HiTEC® 5724 Polymethacrylate Viscosity Index Improver



Next Generation Group III Solution



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Application

HiTEC® 5724 viscosity index improver is a methacrylate polymer recommended as a viscosity index improver for hydraulic fluids with good shear stability characteristics. HiTEC® 5724 can also be used to formulate crankcase oils and industrial lubricants. It also provides efficient pour point depressant performance.

Key Performance Benefits

- Improves both viscosity index and pour point depressant characteristics
- Excellent solubility in solvent neutral oils
- Dilute version available
- Excellent shear stability

Recommended Dosage

As dosages can vary with application and base oil mix, our technical support team will promptly provide you with a custom formulation for your needs. Please contact your Afton Chemical representative for specific recommendations.

Typical Characteristics

Specific Gravity @ 15.6/15.6°C:

Appearance:

Clear to slightly hazy yellow to amber viscous liquid 0.94 Kinematic Viscosity at 100°C, cSt: 1250 120 min.

Handling Information

Flash Point (PMCC), °C:

Max Handling Temp: 100°C (210°C) Shelf Life: 36 months at ambient temperature

Pour Point Depressant Portfolio by Base Oil Compatibility

	Group I			Group II			Group III		
	APE CORE 150	APE CORE 600	APE Core BS	Chevron 100R	Chevron 220R	Chevron 600R	Nexbase 3030	Nexbase 3043	Nexbase 3060
HiTEC [®] 672	•	•	•		•	•	•		
Premium Pour Point Depressant for the Most Demanding of Applications									
HiTEC [®] 5789		•	•						•
Problem Solver for Challenging Base Oils									
HiTEC [®] 5714	•	•	•		•	•	•		
All-round Performance with Added Thickening Efficiency									
HiTEC [®] 623	•	•	•	•	•	•	•		•
All-round Performance with Easy Handling									
HiTEC [®] 5788	•	•	•		•	•			
Cost-effective Pour Point Depressant Solution									
HiTEC [®] 5724		•	•			•	•		
Next Generation Group III Solution									

Most Effective Effective • Least Effective

Shear Stability								
30 Cycle Bosch		20	Hr. KRL	40 Min. Sonic				
P-SSI	% Vis. Loss	P-SSI	%Vis. Loss	P-SSI	% Vis. Loss			
4	1	58	16	33	11			

Formulation Example: ISO 46 Multigrade Hydraulic Oil	% wt.
HiTEC [®] 521 Hydraulic Additive	0.85
HITEC [®] 5724 PMA	5.9
150N base oil	93.25
Total	100

HiTEC[®] 5724 Response in Base Oils

HiTEC [®] 5724,	Pour Point, °C				Pour Point, °C		Pour Point, °C		
% wt.	APE Core 150	APE Core 600	APE Core BS	Chevron 100R	Chevron 220R	Chevron 600R	Nexbase 3030	Nexbase 3043	Nexbase 3060
0	-12	-6	-9	-18	-12	-12	-33	-18	-18
0.25	-12	-6	-6	-42	-21	-33	-54	-42	-33
0.5	-12	-6	-6	-45	-30	-36	-57	-45	-42
1	-15	-6	-6	-51	-36	-36	-60	-48	-45

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