

# COMPONENTS

## **HiTEC<sup>®</sup> 5724**

**Polymethacrylate Viscosity Index Improver**



Next Generation Group III Solution

## HiTEC® 5724 Polymethacrylate Viscosity Index Improver

Next Generation Group III Solution

### 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

Appearance:	Clear to slightly hazy yellow to amber viscous liquid
Specific Gravity @ 15.6/15.6°C:	0.94
Kinematic Viscosity at 100°C, cSt:	1250
Flash Point (PMCC), °C:	120 min.

### Handling Information

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

### HiTEC® 5724 Response in Base Oils

HiTEC® 5724, % wt.	Pour Point, °C			Pour Point, °C			Pour Point, °C		
	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

### 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	●	●	●	●	●	●	●	●	●
<b>Premium Pour Point Depressant for the Most Demanding of Applications</b>									
HiTEC® 5789	●	●	●	●	●	●	●	●	●
<b>Problem Solver for Challenging Base Oils</b>									
HiTEC® 5714	●	●	●	●	●	●	●	●	●
<b>All-round Performance with Added Thickening Efficiency</b>									
HiTEC® 623	●	●	●	●	●	●	●	●	●
<b>All-round Performance with Easy Handling</b>									
HiTEC® 5788	●	●	●	●	●	●	●	●	●
<b>Cost-effective Pour Point Depressant Solution</b>									
HiTEC® 5724	●	●	●	●	●	●	●	●	●
<b>Next Generation Group III Solution</b>									

● 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
<b>Total</b>		<b>100</b>