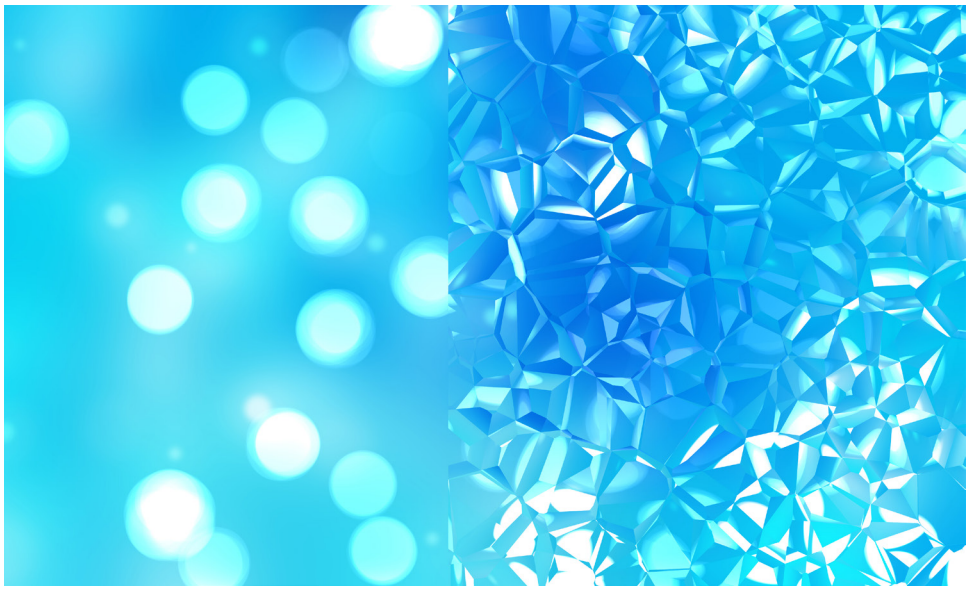
COMPONENTS

# HiTEC® 5724

## Polymethacrylate Viscosity Index Improver



Next Generation Group III Solution

Afton CHEMICAL
Passion for Solutions™

# 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 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, % 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 |



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