COMPONENTS

HiTEC® 5789 Polymethacrylate Pour Point Depressant



Problem Solver for Challenging Base Oils



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Problem Solver for Challenging Base Oils

Key Performance Benefits

HiTEC[®] 5789 is a polymethacrylate pour point depressant. It performs well in Passenger Car and Heavy Duty Engine Oils applications, specifically those which combined the use of a Viscosity Index Improvers and heavy base oils, or Brightstock.

HiTEC[®] 5789 provides the following customer benefits:

- Suitable for use in Gp II Base Oils, matching Industry trends
- Low viscosity for ease of handling
- Effective in Industrial Gear formulations using Brightstock

Recommended Dosage

The recommended treat rate for HiTEC[®] 5789 for Engine Oils applications varies from 0.10% - 0.20%. The exact dosage is determined by the base oils present. Please contact your Afton Chemical representative for specific recommendations.

Typical Characteristics

Appearance:

Specific Gravity at 15.6/15.6°C: Viscosity at 100°C, cSt: Flash Point (PMCC), °C: Clear to slightly hazy yellow to amber viscous liquid 0.91 150 120 min.

Handling Information

Max Handling Temp: 100°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 | | | | | | | | | | |

HITEC[®] 5789 Superior Cold Temperature Performance vs Competitor 15W40 MRV results after Low Temperature Pumpability Oxidation Tests



HiTEC[®] 5789 Response in Base Oils

| HiTEC® 5789, | | 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 | -24 | -21 | -12 | -42 | -30 | -36 | -51 | -39 | -36 |
| 0.5 | -27 | -24 | -21 | -42 | -33 | -33 | -48 | -39 | -36 |
| 1 | -30 | -24 | -18 | -45 | -30 | -33 | -48 | -39 | -33 |

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