

COMPONENTS

HiTEC[®] 614 Sulfonate Detergent



Used to Control Piston Deposits in Gasoline and Diesel Engines

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Application

HiTEC® 614 is a neutral calcium based detergent used in gasoline and diesel engine oils to control piston deposits in the high temperature ring zone. It is also an effective corrosion inhibitor in greases. It is especially well-suited in protecting against salt spray corrosion in applications such as post-tensioning greases.

Key Performance Benefits

- Synthetic alkylate
- Water tolerance
- Excellent filterability
- Rust inhibition in cutting oils and greases

Recommended Dosage

HiTEC® 614 sulfonate detergent dosage varies from 0.5 % wt. to 2.5 % wt. depending on the particular application. Please contact your Afton Chemical representative for specific recommendations.

Typical Characteristics

| | |
|--------------------------------|---------------------------|
| Appearance | Dark brown viscous liquid |
| Density, lbs/gal. | 7.83 |
| Specific Gravity @ 15.6/15.6°C | 0.94 |
| Viscosity @100°C, cSt | 16 |
| Flash Point, °C (PMCC) | 150 min. |
| Calcium, % wt. | 2.60 |
| Chlorine, % wt. | 0.26 |
| TBN, mg KOH/g | 27.5 |
| Water, % wt. | 0.3 max |
| Sulfur, % wt. | 2.3 |

Handling Information

Max Handling Temp: 110°C
Shelf Life: 36 months

Performance

With special interest in grease applications, Afton has tested HiTEC® 614 in a fully formulated lithium base grease.

| Test Typical Treat Rate wt.% | |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------|
| 2.0 | |
| Salt Spray, Corrosion Test (B-117) - 5% Salt, 100°F, Q Panel, Type S, 1000 hrs. | Pass, no corrosion |
| Salt Spray Soak Test (B-117 mod) - 50% immersion in 5% Salt solution, 5 mils coating 100°F, Q Panel, Type S, 720 hrs. | Pass, no emulsification |