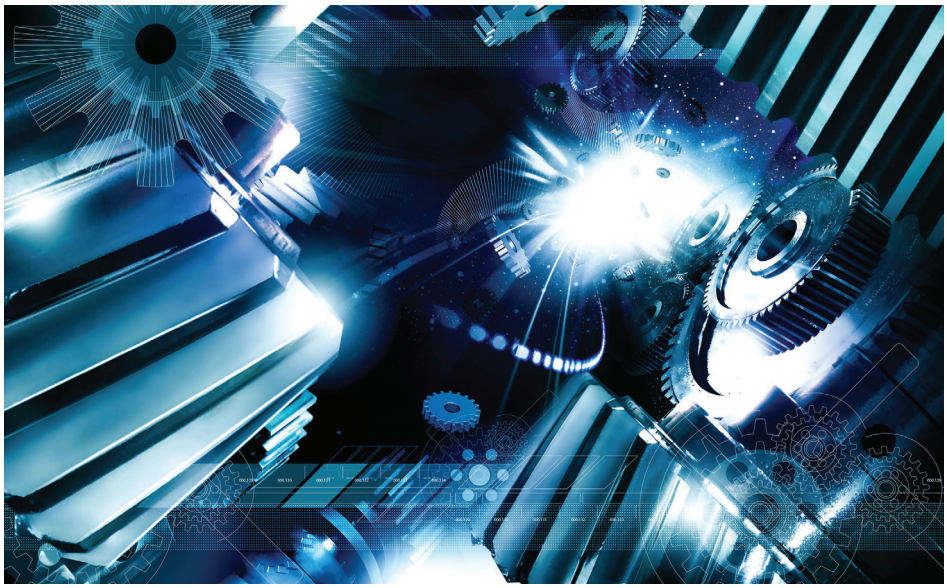
INDUSTRIAL | GEAR

HiTEC® 317

Industrial Gear Oil Additive



Flexible Clean-gear Technology

Afton® CHEMICAL
Passion for Solutions®

HiTEC® 317 Industrial Gear Oil Additive Package

Flexible Clean-gear Technology

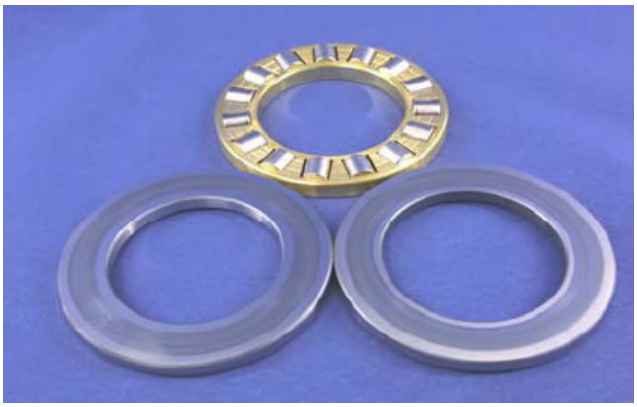
Key Performance Benefits

HiTEC® 317 additive is designed for the formulation of premium quality industrial gear oils. In addition to providing wear, corrosion and oxidation protection, HiTEC® 317 allows the formulation of lubricants with clean-gear performance. Lubricants formulated within HiTEC® 317 retain a high level of phosphorus content throughout the life of the oil, thus providing long term wear protection.

HiTEC® 317 benefits include:

- Clean-gear performance under conditions of high temperature and oxidation
- Excellent phosphorus retention, ensuring extended wear protection
- Low chlorine content in blended industrial gear oils
- Performance exceeding the requirements of AIST 224, AGMA 9005-F16 Antiscuff and DIN 51517 Part 3 in appropriate base stock

HiTEC® 317 Protects Against Bearing Wear



Recommended Dosage

HiTEC® 317 additive is recommended for use at 1.3% wt. to 2 % wt. in conventional mineral oils. When used in synthetic formulations it may be necessary to incorporate some ester fluid in order to improve solubility and compatibility. Treat-rate may vary depending on base stock. Please contact your Afton Chemical representative for specific recommendations.

Typical Characteristics

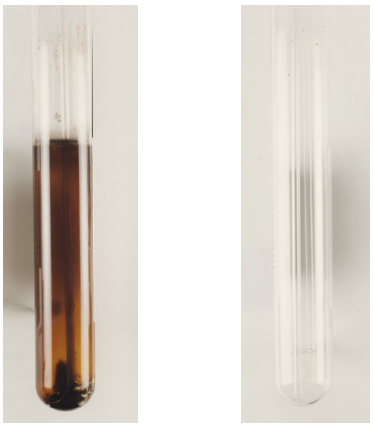
Appearance:	Clear amber liquid
Density at 15°C, g/ml:	1.025
Density, lbs/gal.	8.55
Specific Gravity at 15.6/15.6°C:	1.027
Flash Point, °C (PMCC):	82 min.
Kinematic Viscosity at 100°C, mm^2/s:	15

Handling Information

Max Handling Temp: 60°C
Shelf Life: 24 months at ambient temperature

HiTEC® 317 Additive Delivers Excellent Clean-Gear Performance

S200 (121 °C) Test



Commercial Technology

HiTEC® 317 additive

Afton® CHEMICAL