

# INDUSTRIAL | GREASE

## HiTEC<sup>®</sup> 552

High Performance Grease Package



Multifunctional Componentry Formulated to Resist Degradation of Critical Grease Properties



 **Afton**  
CHEMICAL  
Passion for Solutions<sup>®</sup>



## HiTEC® 552 Multifunctional Grease Additive

Multifunctional Componentry Formulated to Resist Degradation of Critical Grease Properties

### Application

HiTEC® 552 is a reliable grease additive package that combines extreme pressure and antiwear performance with basic rust protection and antioxidancy. HiTEC® 552 is carefully formulated to resist degradation of critical grease properties such as dropping point and stability in the presence of water. This system can be used by itself in a variety of economy-tier, multipurpose greases that require basic EP/AW and corrosion protection. It can also be used as a core “building block” with additional top treats being used to give required performance for specialty grease applications.

### Key Performance Benefits

- Excellent EP and load carrying properties
- Very good long-term rust and wear protection
- Won't adversely effect thickener structure
- High thermal stability

### Recommended Dosage

The recommended treat rate for HiTEC® 552 is 0.5% to 3.0% wt. for typical grease applications depending on thickener type and performance level desired. Please contact your Afton Chemical representative for specific recommendations.

### Typical Characteristics

Appearance	Amber liquid
Density, lbs/gal.	8.95
Viscosity @ 100°C, cSt	9
Specific Gravity @ 15.6/15.6°C	1.075
Flash Point °C, PMCC	100 min.

### Handling Information

Max Handling Temp: 80°C  
Shelf Life: 24 months @ ambient temperature

<b>Additive System: HiTEC® 552</b>			
<b>Treat Rate @ 1.5% wt</b>			
<b>NLGI #2 Grade Grease</b>			
<b>Test Name</b>	<b>ASTM Methods</b>	<b>Typical Performance in Lithium 12-OH</b>	<b>Typical Performance in Lithium Complex</b>
Worked-60 Pen, mm/10	D217	280	280
Worked-10K Pen, mm/10	D217	285	285
Worked-100K Pen, mm/10	D217	295	295
Dropping Point, °C (°F)	D566	190 (374)	265 (509)
Rust Prevention, rating	D1743	Pass	Pass
Copper Corrosion, rating	D4048	1b	1b
Roll Stability (86F, 2 hrs), % change	D1831	8	5
Oil Separation (24 hrs @ 25°C), % loss	D1742	5	4
Water Washout, % loss	D1264	10	10
Leakage, grams loss	D4290	4	4
Four-Ball Wear, mm	D2266	0.5	0.6
Four-Ball Weld, kgf	D2596	250	315
Four-Ball LWI, kgf	D2596	40	45
Oxidation Stability, PSI drop	D942	3	3

<b>HiTEC® 552 Core Formulation Examples</b>		
<b>Good Multipurpose Grease</b>	<b>Premium Specialty Grease</b>	<b>Less Severe Applications</b>
1.5% wt.	2.0% wt. + Top Treat (EP/AW, RI, polymer, etc.)	0.5 -1.5% wt.