

INDUSTRIAL | GREASE

HiTEC[®] 587

Premium Grease Additive Package



For Robust Extreme Pressure and Corrosion Protection



 **Afton**
CHEMICAL
Passion for Solutions[®]



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Application

HiTEC® 587 is a premium grease package offering robust corrosion protection under salt water conditions, high load-carrying capabilities and long-life protection at high temperatures. This additive system can be used to produce a robust, high temperature grease that will, at a minimum, meet NLGI's GC-LB performance specification in an appropriate grease thickener/base oil combination. Extreme pressure and corrosion protection along with high temperature performance beyond GC-LB are likely in a fully formulated finished grease. It can also be used as a "building block" with additional top treats being used to give extra performance in specialty grease applications.

Key Performance Benefits

- Excellent EP and load-carrying properties
- Outstanding corrosion protection
- Extended wear protection
- High thermal and oxidative stability

Recommended Dosage

The recommended treat rate for HiTEC® 587 is 2% to 5% wt. for typical grease applications depending on thickener type and performance level desired. Please contact your Afton Chemical representative for specific recommendations.

Typical Characteristics

Specific Gravity @ 15.6/15.6°C	1.01
Viscosity @ 40°C, cSt	60
Flash Point, °C (PMCC)	120 min.

Handling Information

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

Grease Description			Lithium-12 Base Mineral Oil
Additive Pack			HiTEC® 587
Treat Rate			4.0
Property	Test Method	Conditions	
Penetration unworked (0.1 mm)	ASTM D217		280
Penetration worked (0.1 mm) -60x	ASTM D217	25°C	273
Penetration worked (0.1 mm) -100K	ASTM D217	25°C	260
Dropping Point (°C)	ASTM D2286/IP 396		204
Shell Roll (0.1 mm) - delta pen	ASTM D1831	18h @ 65°C	62
Oil Separation (%m)	IP 121	18h @ 40°C	1.9
Copper Corrosion (-)	ASTM D4048	24h @ 100°C	1b
Emcor Rust Test (-)	IP 220/ASTM D6138	distilled water	0/0
Emcor Rust Test (-)	IP 220/ASTM D6138	100% SSW	2/2
Rust Test	ASTM D1743	48/distH2O/52°C	Pass
Four Ball Wear Test scar diameter (mm)	ASTM D2266	1h/75°C/1200rpm/40kg	0.40
Four Ball Weld Load (kg)	ASTM D2596		315
Timken OK Value/lbs.	ASTM D2509		80
Oxidation Stability (kPa)	ASTM D942/IP 142	99°C/100h	20.7
Wheel Bearing Life Test (h)	ASTM D3527	160°C	>80
FAG FE 9	DIN 51821-2	report @ 130°C	F10: 130, F50: 169

