

Description

CPI®-GRS-450 grease is formulated using polyalphaolefin (PAO) base oil coupled with a premium extreme pressure additive package to deliver an extended service life and wide temperature range capability in a wide range of applications.

CPI®-GRS-450 features a high dropping point, good low temperature pumpability and excellent resistance to oxidation water washout. In addition, this grease has superior corrosion protection, antiwear and EP properties.

CPI®-GRS-450 is compatible with conventional petroleum products and seal materials.

The **CPI®-GRS-450** is suitable for the lubrication of most antifriction bearings over a wide range of temperatures and speeds where long retention, oxidation stability, and resistance to water washout are required. It is also recommended for splines, screws, grease-lubricated worm gears, and other mechanisms featuring steel-to-steel or steel-to-bronze surfaces. **CPI®-GRS-450** is recommended in bearing situations where oscillatory motion and vibration create problems.

Applications

- Antifriction bearings
- Grease-lubricated worm gears
- Splines, screws, and other mechanisms featuring steel-to-steel or steel-to-bronze contact surfaces
- Applications with oscillatory motion and vibration issues

Features and Benefits

Oxidatively stable	Longer bearing life
Water washout resistance	Reduced maintenance and reapplication
Corrosion protection	Enhanced system reliability and reduced down-time
Excellent EP protection	Superior anti-seizure performance

Typical Properties*

Test Procedure	Test Method	CPI®-GRS-450
Dropping Point, °C	ASTM D2265	301
Worked Penetration	ASTM D217	
Unworked		315
60 Strokes		325
10,000 Strokes		339
100,000 Strokes		241
Copper Corrosion	FTMS 791-5309	
Corrosion after 24 hours at 100°C		None
Rust Prevention	ASTM D1743	1-1-1
Oil Separation, %		
30 hours at 177°C	FTMS 791-321	2.1
Separation	ASTM D1742	4.1
Evaporation, %	ASTM D2595	
22 hours at 177°C		4.9
Water Washout, %	ASTM D1264	
37.8°C		0
79.4°C		0
4 Ball Wear	ASTM D2266	
Avg. Scar Diameter, mm		0.39
4 Ball EP	ASTM D2596	
Weld Point, kg		400
Timken OK Load, lb	ASTM D2509	45
Base Oil Kinematic Viscosity, cSt	ASTM D445	
40°C		33.87
100°C		6.0

*These values are not intended for use in preparing specifications