TECHNICAL DATA SHEET

Lithium Complex Grease

Multi-purpose grease for use in anti-friction & plain bearings
Product code: Z011

Product Description:

Lithium Complex is a premium quality, multi-purpose long life grease, manufactured from lithium soaps and extreme pressure additives. It provides both high temperature performance and extreme pressure properties. It conforms to the latest specifications and is approved by leading bearing manufacturers. It is suitable for use in all anti-friction and plain bearings subjected to high load conditions.

Benefits:

- Good mechanical stability
- Good oxidation stability
- Good load carrying capabilities
- Good pump ability
- Impact resistance
- Good corrosion protection
- Wide operating temperature
- Compatible with other greases

Applications:

Lithium Complex is recommended for use in highly loaded industrial and automotive applications such as wheel bearings, pump bearings etc. It has been primarily designed as a wheel bearing and chassis grease. Distances of up to 70,000 miles between re-lubrication are possible with Lithium Complex. It may replace ordinary lithium greases in many arduous industrial applications. It is suitable for use in high pressure greasing equipment.

For health and safety information, please refer to the safety datasheet

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Typical Test Data:

Properties	Unit	Method	Specification	Typical
Appearance	-	-	Tacky Grease	
Colour	-	-	Red	
NLGI Grade	-	-	2	
Thickener	-	-	Lithium Complex	
Base Oil	-	-	Mineral	
Base Oil Viscosity @ 40˚C	cSt	ASTM D445	150	
Worked Penetration	dmm	ASTM D217	265 – 295	279
Dropping Point	°C	ASTM D2265	≥ 260	> 260
Four Ball Weld Load, 10s	kgf	IP 239	≥ 450	560
Four Ball Wear Scar, 40kg 1 hour	mm	IP 239	-	0.55
Extended Worked Penetration				
10,000 strokes	dmm	ASTM D217	-	297 (+18)
100,000 strokes	dmm		-	313 (+34)
Roll Stability – 2 hours @ 35°C	dmm	ASTM D1831	-	303 (+24)
Oil Separation				
42 hours @ 40°C	%	IP 121	-	1.0
168 hours @ 40°C	%		-	2.3
Copper Corrosion				
24 hours @ 100°C	-	ASTM D4048	-	1a
Corrosion (EMCOR)				
Distilled Water	-	ASTM D6138	-	0,0
Corrosion	-	ASTM D1743	-	Pass
Water Washout				
1 hour @ 38°C	%	ASTM D1264	-	2.3
1 hour @ 79°C	%		-	5.0
Oxidation Stability				
Time to 10% Loss @ 150°C	min	ASTM D8206	-	236
FFK Flow Pressure,				
- 30°C	hPa	DIN 51805-2	-	800
Speed factor	dN	-	400,000	
Operating Temperature	-	-	-30°C to +150°C	

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