

Industrial Lithium Grease EP 00 Special for industry

In a large number of cases, both in the industrial and automotive sectors, experience has shown that grease is the only effective means of lubricating and protecting metal parts. To meet specific requirements, Bardahl has developed a grease that is suitable for multiple purposes.

Bardahl Industrial Lithium grease is the most successful answer to this need. This grease is a mixture of lithium-based fat with various additives, the most important of which is Bardahl's "Polar-Attraction" formula.

How it works

With the world-renowned Extreme Pressure agents and polar-organic compounds, **Bardahl Industrial Lithium** grease is capable of excellent lubrication at high pressures, shocking loads and quite high temperatures, which are far above the normal permissible tolerance of standard products. The grease is excellent to use for lubrication points where water and dirt can get to. The tough protective film, formed by the Bardahl components, will not drain away or be squeezed away under these conditions. This grease guarantees complete protection under a wide variety of conditions, so that the lubrication to be lubricated lasts longer and maintenance costs can be kept to a minimum.

Characterize

- Lubrication is exceptional, the powerful lubricating film lubricates even above the drop point of the fat.
- Aging of the fat is very beneficial, without crusting.
- Corrosion effect on copper is virtually nil and usually due to contaminants.
- Freezing point is very low (approx. .)-20°C
- Resistance to water is very good. The fat will absorb small amounts of water or moisture, but will not lose its solidity or be broken down by hydrolysis.

Applications

Lithium Multipurpose EP 00 Grease is successfully used for the lubrication of agricultural machinery, earthmoving equipment, trucks and passenger cars under very heavy loads as well as most industrial applications.

- Automotive sector: bearings, chassis, water pumps and all universal lubrication points.
- Industrial sector: central lubrication system, bearings, gears, conveyor belts, chains, etc.
- Transport and Agricultural sector: bearings, chassis, gears, chains, tracks and all universal lubrication points.
- Public works: lubrication points of excavators, cranes, etc.
- Water management: lubrication points of bridges, locks, pumping stations, etc.
- Shipping: lubrication points of all machines and tools present on ships.

Analysis data

Test			Results
Class – Food grade	Method	Unit	Industrial Lithium Grease Special for industry
NLGI			EP 00
Worked Penetration 60 strokes	ASTM D 217		400/430
Variation worked Penetration 100.000 strokes		°C	-20 tot+45
Colour		VISUAL	amber
Working temperature grease		°C	-20 / +150°C
Texture			semi-liquid
Oil Flash Point		°C	190°C.
Oil Pour Point		°C	-25°C.
Water washout at 80°C.	ASTM D 1264	%	
Copper strips (3 hours at 100°C.)	ASTM D-130		1a
Anti-corrosion resistance	ASTM D 1743		1
Corrosion test copper (144 hours at 100°C.)			neg.
SHELL 4 Ball Test	ASTM D 2596	kg	>250kg.
Test SKF - R2F			
-Lubrication			Very good
-Oil seperation			Almost to none
-Rotation			
Rotation test at 10.000 RPM			
Rotation test at 100.000 RPM			
Oxidation stability (PSI loss in 100 hours)	ASTM D 942		5
Dropping point	ASTM D 566	°C	162°C
Welding Load, kg. Medium Herz Load		kg	60
Timken test, OK LB,min	ASTM D 2509		50
Type soap			lithium

Analysis data

Test			Results		
Class – Food grade	Method	Unit	Industrial Lithium Grease Special for industry		
NLGI			EP 2/3	EP 00	EPO
Worked Penetration 60 strokes	ASTM D 217		265/295	400/430	355/385
Variation worked Penetration 100.000 strokes		°C	-20 tot+45	-20 tot+45	
Colour		VISUAL	groen	amber	amber
Working temperature grease		°C	-20 / +150°C	-20 / +150°C	25 / +120°C
Texture			buttery	semi-liquid	
Oil Flash Point		°C	193°C.	190°C.	
Oil Pour Point		°C	-20,5°C.(-5°F.)	-25°C.	
Water washout at 80°C.	ASTM D 1264	%	2%		
Copper strips (3 hours at 100°C.)	ASTM D-130		1a	1a	1b
Anti-corrosion resistance	ASTM D 1743		1	1	
Corrosion test copper (144 hours at 100°C.)			neg.	neg.	
SHELL 4 Ball Test	ASTM D 2596	kg	>400 kg	>250kg.	>250kg
Test SKF - R2F			Results		
-Lubrication			Very good	Very good	
-Oil separation			Almost to none	Almost to none	
-Rotation			Good		
Rotation test at 10.000 RPM			8 tot 12 punten		
Rotation test at 100.000 RPM			25 tot 35 punten		
Oxidation stability (PSI loss in 100 hours)	ASTM D 942		5	5	
Dropping point	ASTM D 566	°C	188°C	162°C	>170°C
Welding Load, kg. Medium Herz Load		kg	60	60	
Timken test, OK LB,min	ASTM D 2509		50	50	
Type soap			lithium	lithium	lithium

Note:

At very extreme temperatures and/or pressures, one of the other special Bardahl greases may be able to offer a solution.

Industrial Lithium Grease 00

Article number 74155
Content 5 kg

Article number 74182
Content 20 kg

Article number 74185
Content 50 kg