

HERSCHELL ASSEMBLY GREASE

TECHNICAL DATA SHEET

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791



A synergistic combination of solid lubricants in paste form for assembly of all types of metal components.

DESCRIPTION

HERSCHELL ASSEMBLY GREASE is super slippery paste and is supported by a combination of extreme pressure additives for the purpose of carrying lower loads where molybdenum disulphide is not yet functional to a more highly loaded condition where the MoS₂ takes over. It is not always possible or practical to stop machinery to burnish a bonded moly layer on to a scored surface.

HERSCHELL ASSEMBLY GREASE is an ideal first aid lubricant as it does not need to be burnished onto the components. As the machinery runs a multi-laminated coating is rapidly achieved on the metal surface allowing metal forming under this layer smoothing out any damaged or scored surfaces. This is the lowest co-efficient of friction paste we manufacture.

HERSCHELL ASSEMBLY GREASE is manufactured to a NLGI 1.5 grade resulting in a grease of soft consistency which is suitable for centralised lubrication systems. The product contains a blend of synthetic tackifiers, increasing it's ability to resist water and adherence with all surfaces.

HERSCHELL ASSEMBLY GREASE is grey in colour and whose formulation is fortified with two or more extreme pressure (EP) and corrosion preventative additives enabling the grease to meet or exceed internationally recognised performance standards. In addition this product is fortified with both molybdenum disulphide and graphite making it suitable for boundary lubrication at high temperatures and/or heavy loads. In the case of accidental overheating, the presence of these materials will still guarantee good lubrication and avoid any jamming or sticking.

KEY ADVANTAGES

Thermal stability	Very good thermal stability allowing the grease to perform for short periods of time under extreme temperatures, regaining its original texture after cooling to ambient temperature.
Mechanical stability	Allows for long periods of storage or non-use in the application without and mechanical breakdown of the grease thickener (e.g. oil separation)
Anti-corrosive properties	Exhibits very good to excellent anti-rust and anti-corrosion properties.
Water resistant	The thickener has very good natural attributes which displace and resist water ingress.
Heat resistant	Exhibits excellent resistance to heat.

TYPICAL APPLICATIONS

For ultra high loads. Press fitting.

Metal working, including deep drawing, drilling, tapping, bending, punching and forming.

High temperatures:- 5 to 450°C in limited air 650°C

First aid lubricant for:- Scored or damaged surfaces.

Anti seize for:- Threads of fasteners of all metals. Especially useful to prevent seizure of stainless steel nuts and bolts.

Running in lubricant for:- Newly machined parts. Plain bearings. Anti-friction bearings. Slide ways and guides. Splined shafts. Gear faces.

TYPICAL TECHNICAL CHARACTERISTICS

DESCRIPTION	METHOD	UNITS	RESULT
NLGI Grade	ASTM D 217		1.5
Thickener Type			Lithium Calcium
Colour	Visual		Grey
Appearance	Visual		Buttery, Tacky
Penetration	ASTM D 217	0.1mm	303
Dropping Point	ASTM D 2265	°C	>250
Viscosity of Oil @ 40°C	ASTM D 2983	cSt	460
4-Ball Wear Test Scar	ASTM D 2266	mm	0.38
4-Ball Weld Load	ASTM D 2596	kg	>800
Timken OK Load	ASTM D 2509	N	20,000
Corrosion Prevention	ASTM D 1743		Pass
Copper Strip Corrosion	ASTM D 4048		1B

SPECIFICATIONS

ASTM D-5864 / CEC L-33-T-82

KPF1M-30 (DIN 51825)

ISO-L-X-CCIB1 (ISO 6743-9)

PACKAGING

100g tubes

500g Tubs (12 per box)

4.5kg Plastic Pail

15kg Steel pails

18kg Plastic pails

50kg Steel drums

180kg Steel open top drums

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

COMPATIBILITY

Mixing greases in a system can cause issues with thickener systems reacting with each other, changing the physical and chemical structure of the grease, causing an inability to hold or release base oil. Proper care must be taken to ensure compatibility when changing from one grease system to another.

This grease is not compatible with greases making use of the following thickener types: barium, bentonite clay, aluminium complex and polyurea. There is a borderline compatibility with calcium and sodium thickeners. Care must be taken to ensure the application is properly cleaned before using this product if a borderline or non-compatible product has been used before.

ENVIRONMENT, HEALTH and SAFETY

This product is classified under the OECD 301B Modified Sturm, ASTM D-5864, and CEC L-33-T-82 standards as being inherently biodegradable (i.e. 20-70% biodegradable in 28 days). Information is available on this product in the Material Safety Data Sheet (MSDS). Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. This product contains no PCB's (Polychlorinated Biphenyls).

Misrepresentation Act 1967. Trade description Act 1968. The information in this publication is based on our experience and reports from customers. There are many factors outside our control and knowledge which effect the use and performance of our products for which reason no warranty is given, express or implied. This information sheet was prepared from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended.



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