

HERSCHELL COPPER ANTI SEIZE

TECHNICAL DATA SHEET

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293.1



A Copper coloured non melt paste for dip or brush application to prevent seizure whilst in service of threaded connections.

DESCRIPTION

HERSCHELL COPPER ANTI SEIZE is manufactured using highly refined mineral base oils which are carefully selected and then fortified with synthetic polymers, producing a highly shear stable foundation for the grease. This base oil foundation allows the product to perform in applications where light loads and medium speeds are typical.

HERSCHELL COPPER ANTI SEIZE is manufactured using an inorganic clay based thickener resulting in a buttery appearance with excellent shear stability characteristics. In addition, this type of thickener is easily pumped, has an excellent resistance to heat and exhibits excellent water resistance. The optimal operating conditions for this grease in terms of temperature, is from -30 to 205 degrees Celsius, however short periods of elevated temperatures can be tolerated without severe damage to the product.

HERSCHELL COPPER ANTI SEIZE 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 its ability to resist water and adherence with all surfaces.

HERSCHELL COPPER ANTI SEIZE is copper in colour and whose formulation excludes extreme pressure (EP) additives, however is fortified with anti-oxidants, anti-wear and anti-rust additives. In addition, this product is fortified with copper, bronze and other solids making it suitable for anti-seize / boundary lubrication at high temperatures and/or heavy loads. In the case of accidental overheating, the presence of this material 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 mechanical breakdown of the grease thickener (e.g. oil separation)
Chemically resistant properties	Resistant to mild alkaline and acidic solutions.
Water resistant	The thickener has very good natural attributes which displace and resist water ingress.
Heat resistant	Exhibits excellent resistance to heat.

TYPICAL APPLICATIONS

Lubrication and protection of threaded or mating surfaces such as nuts and bolts, screws, pipe threads, exhaust manifolds, cylinder head studs, drilling rods, etc...

Aids with the sealing all types joints whether under hot or cold conditions. Remains soft.

General recommendation - avoid contamination of the grease by dust, moisture and/or dirt when applying the product.

Prevents the effects of tribo-corrosion on opposing thread flanks.

Applied to the reverse (caliper or piston) side of a brake pad this product prevents annoying disc brake squeal.

TYPICAL TECHNICAL CHARACTERISTICS

DESCRIPTION	METHOD	UNITS	RESULT
NLGI Grade	ASTM D 217		1.5
Thickener Type			Clay
Colour	Visual		Copper
Appearance	Visual		Buttery, Tacky
Penetration	ASTM D 217	0.1mm	303
Dropping Point	ASTM D 2265	°C	None
Viscosity of Oil @ 40°C	ASTM D 2983	cSt	130
4-Ball Wear Test Scar	ASTM D 2266	mm	na
4-Ball Weld Load	ASTM D 2596	kg	na
Timken OK Load	ASTM D 2509	lb	na
Corrosion Prevention	ASTM D 1743		Pass
Copper Strip Corrosion	ASTM D 4048		1B

SPECIFICATIONS

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

KPF1S-30 (DIN 51825)

ISO-L-X-CG1B1 (ISO 6743-9)

PACKAGING

100g tubes

500g Tubes (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 only compatible with greases making use of the following thickener types: calcium and calcium 12 hydroxy. There is a borderline compatibility with the calcium sulfonate thickener. 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).

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