



Foodmax Grease CAS S LS

Food grade high performance grease with high resistance to heavy loads and low speeds based on a PAO.

Description

Foodmax Grease CAS S LS greases are member of a family of technologically advanced greases which have been developed by complexing modified overbased calcium sulphonates. This technology is characterized by exceptional mechanical stability, high dropping point, high load carrying performance, reduced wear and excellent resistance to water and steam and corrosion. This technology equals and in many ways outperforms other premium, high temperature greases such as lithium complex, aluminium complex and polyurea.

Applications

Foodmax Grease CAS S LS series are high viscosity synthetic H-1 approved greases for incidental food contact. They are designed to provide superior performance at elevated temperatures and during periods of infrequent lubrication in food processing applications. It is best suited for low to medium speed bearings operating under adverse conditions including the combined action of (salt) water, steam, temperature and other foreign material such as process fluids which are seen in sugar beet processing. Another application with stringent and increasing demands to the lubricant are pellet presses. Foodmax Grease CAS S LS greases have a proven track record

enhancing bearing lifetime and reducing wear and downtime.

Benefits

- Superior mechanical stability versus other thickeners, particularly in the presence of heat and water
- High dropping point, typically in excess of 300 °C
- Excellent EP and AW properties inherent in the thickener
- Does not require the use of additional additives
- Excellent mobility and torque at temperatures down to -40 °C
- Contains no colorant
- Formulated for enhanced resistance to hot, cold and salt water
- Sulphonates are known and used for their excellent rust prevention properties
- The use of premium antioxidant and a high viscosity PAO ensures excellent thermal and oxidation stability. Life performance is typically increased by up to four times that of a regular mineral oil based grease
- Bearing life performance in excess of 200 hours
- Suitable for centralized lubrication systems

All performance data on this Technical Data Sheet are indicative only and can vary during production

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Typical performance data

	Test method	S 1 LS	S 2 LS
Appearance	Visual	Smooth	
Colour	Visual	Tan	
Base oil viscosity @ 40 °C, cSt		400	400
Base oil viscosity @ 100 °C, cSt		37.5	37.5
NLGI consistency	ASTM D217	1	2
Consistency, 60 strokes, mm/10	ASTM D217	325	280
Mechanical stability, 10.000 strokes % change	ASTM D217	4.0	4.5
Dropping point, °C	ASTM D2265	318	318
Roll stability, 50% water, %	ASTM D1831	2.5	2.5
Timken OK load, kg	ASTM D2509	27.2	27.2
4-ball wear test	ASTM D2596		
• LWI, kg		55	55
• Weld load, kg		400	400
• Wear scar, mm		0.50	0.50
Rust test	ASTM D1743	Pass	Pass
Salt fog corrosion, 1 mil d.f.t., hours	ASTM B117	>300	>300
Copper corrosion, rating	ASTM D4048	1b	1b
Wheel bearing leakage, grams	ASTM D4290	3.5	3.5
Bearing life performance, hours	ASTM D3527	220	260
Bomb oxidation, psi drop / 1000 hours	ASTM D3527	5.0	5.0
Water washout @ 80 °C, % lost	ASTM D1264	0.5	0.5
Oil separation, % loss	ASTM D1742	0.1	0.1
Low temperature torque, 10000 g-cm @ start	ASTM D1478		
• @ -40 °C		2200	6000
• @ -29 °C		2500	
• @ -18 °C		900	
Low temperature torque, 10000 g-cm @ 60 min	ASTM D1478		
• @ -40 °C		550	800
• @ -29 °C		250	
• @ -18 °C			
Speed Factor*	-	400.000	400.000
Operating service temperatures, °C	-	-40 – 240	-40 – 240
Peak temperature, °C	-	260	260
NSF registration	-	148299	141133
Kosher approved	-	Yes	Yes
Halal approved	-	Yes	Yes

*See the statement regarding Speed Factor

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