

# FOODMAX GREASE CAS S 1 LS

Product code: 263701001

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

Foodmax Grease CAS S 1 LS is a 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.

This product is a high viscosity synthetic H-1 approved greases for incidental food contact. The grease is 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. This product has a proven track record enhancing bearing lifetime and reducing wear and downtime.

## Benefits & Advantages

- Superior mechanical stability versus other thickeners, particularly in the presence of heat and water
- Resistant against cold & hot water and alkali-based cleaners
- Adheres to metal surfaces
- High dropping point, typically more than 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 (Titanium Dioxide TiO<sub>2</sub>)
- 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
- Suitable for centralized lubrication systems
- Improved pumpability specially at lower ambient temperatures

## Performance Level

DIN 51502  
DIN 51825 KP1U-40  
ISO 6743-9 L-XBFHB1

# FOODMAX GREASE CAS S 1 LS

Product code: 263701001

## Typical Performance Data



Typical	Test Method	Value
Appearance	Visual	Smooth
Colour	Visual	Tan
Base oil viscosity @ 40 °C, cSt		400
Base oil viscosity @ 100 °C, cSt		37.5
NLGI consistency	ASTM D217	1
Consistency, 60 strokes, mm/10	ASTM D217	325
Mechanical stability, 10.000 strokes % change	ASTM D217	4.0
Dropping point, °C	ASTM D2265	318
Roll stability, 50% water, %	ASTM D1831	2.5
Timken OK load, kg	ASTM D2509	27.2
4-ball wear test <ul style="list-style-type: none"> <li>LWI, kg</li> <li>Weld load, kg</li> <li>Wear scar, mm</li> </ul>	ASTM D2596	41 >490 0.50
Rust test	ASTM D1743	Pass
Salt fog corrosion, 1 mil d.f.t., hours	ASTM B117	>300
Copper corrosion, rating	ASTM D4048	1b
Wheel bearing leakage, grams	ASTM D4290	3.5
Bearing life performance, hours	ASTM D3527	220
Bomb oxidation, psi drop / 1000 hours	ASTM D3527	5.0
Water washout @ 80 °C, % lost	ASTM D1264	0.5
Oil separation, % loss	ASTM D1742	0.1
Low temperature torque, 10000 g-cm @ start <ul style="list-style-type: none"> <li>@ -40 °C</li> <li>@ -29 °C</li> <li>@ -18 °C</li> </ul>	ASTM D1478	2200 2500 900
Low temperature torque, 10000 g-cm @ 60 min <ul style="list-style-type: none"> <li>@ -40 °C</li> <li>@ -29 °C</li> <li>@ -18 °C</li> </ul>	ASTM D1478	550 250
Speed Factor*	-	400.000
Operating service temperatures, °C	-	-40-240
Peak temperature, °C	-	260
NSF registration	-	148299
Kosher approved	-	Yes
Halal approved	-	Yes

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