

FOOD-PLUS GREASE CALSUL 1 L

FOODGRADE GREASES

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FOOD GRADE HIGH PERFORMANCE GREASE WITH HIGH RESISTANCE TO HIGH TEMPERATURES AND SPEEDS BASED ON A PAO

This product by FOOD-PLUS is part of a family of advanced lubricants that are developed using modified overbased calcium sulphonates. These greases offer exceptional mechanical stability, high dropping point, superior load carrying capacity, reduced wear, and excellent resistance to water, steam, and corrosion. This technology is equivalent to, and often surpasses, other high-temperature greases such as lithium complex, aluminum complex, and polyurea in terms of performance. This H-I approved grease is a high viscosity synthetic lubricant that is safe for incidental food contact. Its formulation is optimized for superior performance in food processing applications, especially in high temperature environments and situations where lubrication is infrequent. It is most suitable for low to medium speed bearings that operate under adverse conditions such as exposure to water, steam, temperature, and foreign material like process fluids commonly found in sugar beet processing. Additionally,

this product is highly effective in pellet presses which have increasingly stringent lubricant requirements. Its proven track record demonstrates increased bearing lifetime, reduced wear, and less downtime.

PROPERTY	METHOD	VALUE
Appearance	Visual	Smooth
Colour	Visual	Tan
Base oil viscosity @ 40 °C, mm ² /s		400
Base oil viscosity @ 100 °C, mm ² /s		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 - LWI, kg	ASTM D2596	41
4-ball wear test - Weld load, kg	ASTM D2596	>490
4-ball wear test - Wear scar, mm	ASTM D2596	0.50
Rust Test	ASTM D1743	Pass
Salt fog corrosion, 1 mil d.f.t., hours	ASTM B117	>300
Copper corrosion	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 @ -40 °C	ASTM D1478	2200
Low temperature torque, 10000 g-cm @ start @ -29 °C	ASTM D1478	2500
Low temperature torque, 10000 g-cm @ start @ -18 °C	ASTM D1478	900
Low temperature torque, 10000 g-cm @ 60 min @ -40 °C	ASTM D1478	
Low temperature torque, 10000 g-cm @ 60 min @ -29 °C	ASTM D1478	550
Low temperature torque, 10000 g-cm @ 60 min @ -18 °C	ASTM D1478	250
Speed Factor*		400.000
Operating service temperatures, °C		-40-240
Peak temperature, °C		260
NSF registration		148299
Kosher approved		Yes
Halal approved		Yes

CATEGORY

- Greases

BENEFITS

- 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 TiO₂)
- 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
- Improved pumpability specially at lower ambient temperatures

All data on this technical data sheet is indicative only

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