Foodmax Grease CAS S HS

Food grade high performance grease with high resistance to high temperatures and speeds based on a PAO

Description

Foodmax Grease CAS S HS 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 2 HS is a low viscosity synthetic H-1 grease for incidental food contact. It 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 to high speed bearings, seal-for-life bearings and in most extended life operations such as centrifuges and electrical motor bearings.

Benefits

- Superior mechanical stability versus other thickeners, particularly in the presence of heat and water
- High dropping point, typically in excess of 300 ºC
- 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 ºC
- 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 high speed bearings

Typical performance data

	Test method	S 2 HS
NLGI consistency	ASTM D217	2
Colour	Visual	Tan
Texture	Visual	Smooth
Dropping point, °C	ASTM D2265	318
Consistency, 60 strokes, mm/10	ASTM D217	280
Mechanical stability, 10.000 strokes %	ASTM D217	4,8
Roll stability, 50% water, % change in pen.	ASTM D1831	2,5
Timken OK load, kg	ASTM D2509	27,2
4-ball wear test • LWI, kg • Weld load, kg • Wear scar, mm	ASTM D2596	 55 400 0,40
Rust test, rating	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	3,8
Bearing life performance, hours	ASTM D3527	240
Bomb oxidation, psi drop after 1000 hours	ASTM D3527	6.0
Water washout @ 80 °C, %	ASTM D1264	0,5
Oil separation, % loss	ASTM D1742	0
Low temperature torque, 10000 g-cm @ start • @ -40 °C • @ -18 °C	ASTM D1478	 7500 600
Low temperature torque, 10000 g-cm @ 60 min • @ -40 °C • @ -18 °C	ASTM D1478	 800 125
Base oil viscosity @ 40 °C, cSt		100
Base oil viscosity @ 100 °C, cSt		13,4
Working service temperatures, °C		-40 – 225
Peak temperature, °C		260