



Super S[®] Marine Grease

Super S Marine Grease is a high performance extreme pressure (EP) synthetic based grease designed for the marine industry. Formulated with advanced calcium sulfonate thickener technology to provide excellent extreme pressure (EP) load carrying and rust protection in moderate to severe service applications. Compared to conventional soap-base thickeners (i.e. lithium, aluminum, calcium soaps), the 12-HSA calcium sulfonate thickener used in Super S[®] calcium sulfonate grease excels in water saturated environments, providing rust protection between long re-lubrication intervals. The inherent EP properties of OBCS (over-based calcium sulphonate) grease exhibit great stability in the presence of water while a unique combination of polymers provide excellent adhesiveness, allowing a balance between wear protection and resistance to corrosion.

Super S Marine Grease provides excellent fresh water and salt water corrosion protection. Its fortified formula provides excellent extreme pressure properties, effective water resistance and shock loading protection as indicated by the typical weld point of 600 kg. The minimum industry standard is 200 kg. 12-HSA fortified calcium greases are extremely shear stable and capable of operating under a wide range of temperatures.

FEATURES/ BENEFITS

Super S Marine Grease provides

- Excellent extreme pressure/anti-wear properties
- Extremely shear stable
- High temperature characteristics
- Very good sealing properties to keep out water and dirt
- Outstanding resistance to fresh and salt water
- Adhesive to prevent water wash-out
- Very high load carrying capacity
- High TBN for resistance to oxidation
- Assures a low coefficient of friction
- Formulated for severe service

SPECIAL HANDLING, NOTICES OR WARNINGS

Use the same care and handling as for any petroleum product.

APPLICATIONS

Super S Marine Grease has displayed acceptable performance in the following applications

- Boat Tailer wheel bearings
- Outboards
- Trailer chassis lubrication
- General marine applications
- Areas susceptible to water wash out
- Applications with wide temperature ranges
- Applications seeking longer life between servicing
- Automotive wheel bearing and chassis lubrication
- Severe service applications
- Where high loads are expected
- Areas of high contamination

RECOMMENDATIONS/SPECIFICATIONS

Meets requirements of NLGI GC-LB



Super S Marine Grease		
Properties	Test Method ASTM D-	Data
All Applications		
Appearance	Visual	Green
Consistency	Visual	Smooth
Soap Type		Calcium Sulfonate
NLGI Grade		2
NLGI Classification		GC-LB
Worked Penetration	217	279
drop Point (°C/°F)	2265	288(550)
Oil Separation	1742	0.5
Base Oil Viscosity	445	
cSt @ 40 °C		118
cSt @ 100 °C		12.5
Viscosity Index	2270	95
Automotive Applications		
Water Washout @ 175 °F	1264	0.5
Leakage Tendencies, g loss	4290	4
high Temp Life hours	3527	100
Fretting Protection mg	4170	6
Elastomer Change @ 100 °C Volume Change % hardness Change %	4289	7.7 0
4 Ball Wear Scar diam., mm	2266	0.45
4 Ball Load Wear Index kgf	2596	75
4 Ball EP Weld kgf	2596	600
Rust Test	1743	Pass
Low Temperature Torque N-m	4693	9.0
Industrial Applications		
Timken OK Load lbs	2509	65
Cu Corrosion	4048	1b
Steel Corrosion, distilled water	4049	Pass
Steel Corrosion, 3% sea water	1743	Pass
Oxidation, psi drop @ 100 hrs	942	< 5 psi

Typical test data are average values only.

Minor variations which do not affect product performance are to be expected during normal manufacturing

PRODUCT NUMBERS

SUS 417 50/ 14oz tubes
SUS 417-35 35 lb Pail
SUS 417-120 120 lb keg