Marfak Bio Elitesyn HD 2 Grease

(Formerly Clarity Synthetic EA Grease 2)

High Performance EAL Lubricating Grease

Product description

Marfak Bio Elitesyn HD 2 Grease is an anhydrous calcium-thickened lubricating grease based on biodegradable esters. It is compliant to 2013 VGP legislation and the Swedish Standard 155470.

The grease contains antioxidants, corrosion inhibitors, and extreme pressure and anti-wear additives. The thickener, together with the biodegradable esters, makes the product suitable for lubrication of heavily loaded applications. The lubricating grease has excellent adhesion and water resistance.

Customer benefits and product features

Customer benefits

- **Environmentally acceptable**
  Meets the requirements of the EPA Vessel General Permit (VGP) for biodegradation, low toxicity and low bioaccumulation.
- **Water resistance**
  Provides satisfactory lubrication in the presence of water and is not washed out of bearings.
- **Corrosion protection**
  Rust-inhibited to protect steel and nonferrous-bearing surfaces against corrosion.
- **Multipurpose**
  Satisfies all grease requirements of the majority of marine equipment.
- **Pumpability**
  Can be used over a wide temperature range in centralized lubrication systems.

Product features

- Designed for environmental acceptability.
- Biodegradable formulation for environmental sensitivity.
- Offers dependable component wear and corrosion prevention.
- Provides reliable adhesion for good component protection.
- Robust performance even in wet and corrosive environments.

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Applications

Marfak Bio EliteSyn HD 2 is a versatile, high performance, environmentally acceptable lubricant (EAL) developed for a wide variety of applications where environmental sensitivity and biodegradability may benefit operations or may be a requirement due to legislative demands.

While primarily designed for marine applications, Marfak Bio EliteSyn HD 2 can also be applied to a diverse range of other applications including the forestry, agriculture, and construction industries where the combination of exposed applications and operating conditions may result in an increased risk of lubricants coming into contact with the surrounding environment.

For marine applications, Marfak Bio EliteSyn HD 2 can be recommended for a range of plain and rolling element bearings or slide-ways in a variety of on-deck equipment including:

- Boom pins, and crane pulleys
- Anchor winches
- Wire ropes
- Deck equipment bearings
- Cargo door hinges
- Thruster and rudder bearings

Open gear or rack and pinion systems where conditions of operation do not require dedicated products containing solid lubricant technology.

Examples of applications in other areas where Marfak Bio EliteSyn HD 2 may also be used include the general lubrication points on steering or chassis components of forestry, agricultural and construction vehicles as well as saw chains within the forestry segment, where a biodegradable grease is required.

The product is especially suited for applications where risks of contamination of the soil, waters or channels can occur.

Product approvals, performance and recommendations

Performance Standards

ISO 12924	Operating Temperature
L-XD(F)BIBO	-40°C up to 100°C with short periods up to 110°C

- 2013 VGP Compliance
- SS 155470
- CARCO: S800-S850 Elastomer Compatibility

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Typical test data

MARFAK BIO ELITESYN HD 2	TEST METHOD	RESULTS
Product Code		**540942**
Operating Temperature, °C (°F)		
Minimum[a]		-40
Maximum[b]		100
ISO Viscosity Grade Base Oil Equivalent		460
Base Oil Viscosity, Kinematic		
cSt at 40°C	ASTM D445	500
cSt at 100°C	ASTM D445	53
Base Oil Viscosity Index	ASTM D2770	170
Thickener Type, m%		Anhydrous Calcium
Penetration, at 25°C Worked (60 strokes)	ASTM D217	265-295
Dropping Point, °C	ASTM D2265	>140
Four Ball, Weld point, kgf	ASTM D2596	315
Water Spray-off, wt%	ASTM D4040	<50
Water washout dynamic at 38°C, %	ASTM D1264	<10
Flow Pressure at -40°C mbar	DIN 51 805	<1400
Base Fluid		Synthetic Ester
Texture		Smooth/Tacky
Color		Yellow

Minor variations in product typical test data are to be expected in normal manufacturing.

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Product Maintenance and handling

Maintaining a clean work environment is critical when equipment greasing is performed.

Grease fittings should be wiped clean prior to grease injection to prevent contaminants from entering the equipment. Bearing housings should be maintained one-third to one-half full of grease. Over-greasing should be avoided as excessive heat build-up can result. Periodic relubrication via grease gun or centralized system should be supplemented by complete cleaning and packing with fresh grease on an appropriate schedule.

Always follow the recommendations of the OEM.

ENVIRONMENT, HEALTH, and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions, and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the Product Information Center.

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