



marine products

Marfak Bio Elitesyn HD

Formerly: Clarity® Synthetic EA Grease, Clarity® Synthetic EA Grease 0



Description

Marfak Bio Elitesyn HD is a range of high-performance, Environmentally Acceptable Lubricant (EAL) greases, compliant to 2013 VGP legislation and the Swedish Standard 155470, available in NLGI 0 and NLGI 2 grades.

Marfak Bio Elitesyn HD greases are anhydrous calcium-thickened formulations based on biodegradable synthetic esters. They contain antioxidants, corrosion inhibitors, and EP/AW additives, and are engineered to deliver excellent adhesion, water resistance, and long-term protection in demanding marine applications.

These greases are designed for the lubrication of heavily loaded bearings operating in wet, corrosive environments, including service at low temperatures.

Typical Characteristics

NLGI Grade	HD 0	HD 2
MPID	219587	219588
Color (observation)	Yellow	Yellow
Texture (observation)	Smooth	Smooth
Thickener Type	Anhydrous Calcium	Anhydrous Calcium
Base Oil Type	Synthetic Ester	Synthetic Ester
Base Oil Viscosity at 40°C, mm ² /s (ASTM D445)	460	560
Base Oil Viscosity at 100°C, mm ² /s (ASTM D445)	50	58
Dropping Point, °C (ASTM D566)	>140	>140
Density of Grease, 15 g/ml (IP 530)	0.93	0.94

Recommended Applications

Marfak Bio Elitesyn HD 0 and HD 2 are modern, high-performance Environmentally Acceptable Lubricant (EAL) greases developed for a wide range of applications where environmental sensitivity and biodegradability are beneficial to operations.

These greases are suitable for marine on-deck applications, including slides, hinges, submerged pumps, propeller caps, and other marine equipment where the use of an EAL grease is required.

The products are recommended for the lubrication of:

- Boom pins, and crane pulleys
- Anchor winches
- Wire ropes
- Cargo door hinges
- Thruster and rudder bearings
- Deck equipment, applications requiring a biodegradable grease in NLGI 0 or NLGI 2 grades

Marfak Bio Elitesyn HD greases are especially suited for applications where there is a risk of contamination of soil, waterways, or channels.

Marfak Bio Elitesyn HD is approved for:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Swedish Standard SS 155470 | <input checked="" type="checkbox"/> Van der Velden Rudder Carrier, HD 2 |
| <input checked="" type="checkbox"/> Wärtsilä Rudder Carrier | <input checked="" type="checkbox"/> Hanil lubtec HD 0 |
| <input checked="" type="checkbox"/> Dong tai oceangoing marine Rudder Carrier | <input checked="" type="checkbox"/> Yoowon Korea , HD 0 |
| <input checked="" type="checkbox"/> Nakashima Propeller | <input checked="" type="checkbox"/> Jiangsu China Empire Offshore , HD 0 |
| <input checked="" type="checkbox"/> Masada Cranes , HD 2 | <input checked="" type="checkbox"/> Becker , HD 2 |
| <input checked="" type="checkbox"/> Nippon Pillar Packing Rudder Carrier, HD 2 | |

Marfak Bio Elitesyn HD meets the requirements of:

- | | |
|--|--|
| <input checked="" type="checkbox"/> CARCO S800-S850 Elastomer Compatibility | <input checked="" type="checkbox"/> DIN 51 502 KPE0G-40, HD 0 |
| <input checked="" type="checkbox"/> 2013 VGP | <input checked="" type="checkbox"/> US EPA VGP EAL |
| <input checked="" type="checkbox"/> ISO 12924 L-XD(F)BIB2, HD 2 | <input checked="" type="checkbox"/> ISO 6743-9: ISO-L-XE(F)BIB0, HD 0 |
| <input checked="" type="checkbox"/> DIN 51 502 KPE2G-40, HD 2 | <input checked="" type="checkbox"/> ISO 6743-9: ISO-L-XD(F)CIB2, HD 2 |
| <input checked="" type="checkbox"/> ISO 12924 L-XD(F)BIB0, HD 0 | |



marine products

Performance Benefits

1. Wide range of applications

Developed to provide effective protection across a variety of on-deck marine applications requiring NLGI 0 or NLGI 2 EAL greases.

2. Environmentally Acceptable Lubricant (EAL)

Meets the requirements of the EPA Vessel General Permit (VGP 2013) for biodegradability, low toxicity, and low bioaccumulation.

3. Good water resistance

A high dropping point helps minimize grease leakage at elevated temperatures, while oxidation resistance supports long grease service life.

The natural water resistance of the calcium thickener, combined with a tackiness additive, helps prevent water washout.

4. Corrosion resistance

Formulated to help provide effective corrosion protection across a range of on deck marine applications, offering long lasting protection against most forms of corrosion on common metals.

5. Multipurpose performance

Designed to satisfy the majority of grease requirements for marine equipment, reducing the need for multiple products.

Environment, Health and Safety

Information is available on this product in the Safety Data Sheet (SDS) 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 an SDS for this product visit chevronmarineproducts.com.



Disclaimer. Data provided in this PDS is based on standard tests under laboratory conditions and is indicative only. Minor variations which do not affect product performance are expected in normal manufacturing. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Recommendations differ between engine manufacturers and always consult your manual. Neither Chevron nor its subsidiaries make any warranty or representation as to the accuracy or completeness of this PDS and neither Chevron nor its subsidiaries accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.