

# Marfak Bio Elitesyn HD 0

High Performance EAL Lubricating Grease

(formerly Clarity Synthetic EA Grease 0)



## Product description

**Marfak Bio EliteSyn HD 0 Grease** is a high performance grease, formulated to meet the requirements of the United States Environmental Protection Agency (EPA) Vessel General Permit (VGP)<sup>#</sup> for biodegradation<sup>^</sup>, low toxicity, and low bioaccumulation. It is classified as an Environmentally Acceptable Lubricating (EAL)<sup>\*</sup> grease, suitable for lubrication of heavily loaded bearings and in wet and corrosive environments, even at low temperatures.

Marfak Bio EliteSyn HD 0 is an anhydrous calcium thickened lubricating grease based on biodegradable synthetic esters, containing antioxidants, corrosion inhibitors and EP/AW additives, formulated to provide robust adhesion and water resistance.

## Customer benefits and product features

### Customer benefits

- Formulated with biodegradable synthetic esters to meet the EPA's requirements for EALs<sup>\*</sup> relating to biodegradation<sup>^</sup>, low toxicity and low bioaccumulation to fish and invertebrates, as set out in the VGP<sup>#</sup>.
- Offers robust protection of heavily loaded bearings in wet and corrosive environments.
- Helps protect against component wear, corrosion and rust, offering long, good system performance and service life.
- Designed for effective adhesion to critical components to aid long-term protection.
- Good pumpability helps ensure protection across a typical temperature ranges.

### Product features

- Designed for compliance with EPA requirements for EALs<sup>\*</sup>.
- Biodegradable<sup>^</sup> formulation for environmental sensitivity.
- Promotes protection against component wear and corrosion.
- Provides effective adhesion for good component protection.
- Robust performance even in wet and corrosive environments.

<sup>#</sup> In December 2013, the United States Environment Protection Agency's (EPA) Vessel General Permit (VGP) became effective, requiring any vessel greater than 79 feet to use environmentally acceptable lubricants\* (EAL) in all oil-to-sea interfaces.

<sup>^</sup> Biodegradability is defined by the Organization for Economic Cooperation and Development (OECD) as meeting specific biodegradation criteria under defined testing conditions.

<sup>\*</sup> Environmentally acceptable lubricants (EALs) are lubricants that are biodegradable, minimally toxic and not bio-accumulative, according to the U.S. Environmental Protection Agency's (EPA) Vessel General Permit (VGP). The EPA requires the use of EALs for certain applications.

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## Applications

Marfak Bio EliteSyn HD 0 is a modern high performance EAL grease for diversified use. It is suitable for marine on-deck applications, slides, hinges, sub-merged pumps, propeller caps, in all marine applications requiring an NLGI 0 EAL grease, and serves as a universal grease for forestry, agricultural and construction vehicles. The grease is easily pumpable in most modern centralized lubrication systems.

Marfak Bio EliteSyn HD 0 is suitable for the lubrication of:

- All highly loaded plain and rolling bearings and slide ways and other elements of construction and farm machinery
- Machine tools
- Wheel flanges
- Threaded spindles
- Gear drives
- All applications where a biodegradable NLGI 0 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

DIN 51 502	ISO 6743-9	Operating Temperature
<b>KPE0G-50</b>	ISO-L-XE(F)BIBO	-40°C up to 100°C with short periods up to 110°C

- US EPA VGP EAL
- Swedish Standard SS 155470
- CARCO: S800-S850 Elastomer Compatibility

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## Typical test data

MARFAK BIO ELITESYN HD 0	TEST METHOD	RESULTS
<b>Product Code</b>		<b>540941</b>
Operating Temperature, °C		
Minimum <sup>a</sup>		-40
Maximum <sup>b</sup>		100
ISO Viscosity Grade Base Oil Equivalent		460
Base Oil Viscosity, Kinematic		
cSt at 40°C	ASTM D445	460
cSt at 100°C	ASTM D445	50
Base Oil Viscosity Index	ASTM D2770	170
Thickener Type, m%		Anhydrous Calcium
Penetration, at 25°C Worked (60 strokes)	ASTM D217	363
Dropping Point, °C	ASTM D2265	>140
Water Resistance Static, 90°C	DIN 51807/1	0
Water Washout Dynamic at 38°C, %	ISO 11009	1
Emcor Corrosion Test Salt Water	ISO 11007	0-0
Readily Biodegradable Content, %	EEL Calculation	82
Renewable Carbon Content	EEL Calculation	86
Seal Packing Compatibility; AMS 3217/2C NBR-L Type 70 Hours at 150°C Seal Swell, % Hardness Durameter A	ASTM D4289	13.98 -2

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 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 the Product Information Center.

This Product Data Sheet (PDS) was produced for the Africa, Middle East and Pakistan region in good faith from the best information available at the time of issue. The specific information included may not directly reflect the local market or conditions. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. For the most up-to-date, country-specific information, please contact your local customer service center.

Customers should always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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