High Performance EAL Lubricating Grease (formerly Clarity Synthetic EA Grease 0)



Product description

Marfak Bio EliteSyn HD 0 Grease is a high performance Environmentally Acceptable Lubricating (EAL) 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 for environmentally acceptable lubrication
- Offers robust protection of heavily loaded bearings in wet and corrosive environments
- Promotes dependable component wear, corrosion and rust protection offering long, reliable system performance and service life
- Designed for reliable adhesion to critical components to aid long-term protection
- Good pumpability helps ensure protection across a typical temperature ranges

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 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 can be recommended for the lubrication of:

- All highly loaded plain and rolling bearings and slide ways and other elements of construction and farm machinery
- Machine tools
- Used for wheel flange lubrication
- Threaded spindles
- Gear drives
- All applications where a biodegradable grease NLGI 0 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
KPE0G-50	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



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Typical test data

MARFAK BIO ELITESYN HD 0	TEST METHOD	RESULTS
Product Code		540941
Operating Temperature, °C		
Minimum ^a		-40
Maximum⁵		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 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.

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.

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