



BIOMAX™ MULTI-PURPOSE EP GREASE

SYNTHETIC ENVIRONMENTALLY ACCEPTABLE GREASE

The BioMax™ EAL product line consists of environmentally friendly, synthetic, high-performance lubricants designed for equipment operating in environmentally sensitive areas. While many environmentally acceptable lubricants sacrifice performance and durability to meet regulatory requirements, BioMax EALs deliver uncompromised protection for all lubricated components.

BioMax™ Multi-Purpose EP Grease is the choice for operators who want serious equipment protection without compromising environmental goals. It is recommended for use in environmentally sensitive areas and in applications where incidental food contact may occur, making it suitable for marine, industrial and food-related operations. The synthetic formulation, consisting of base oil and calcium sulfonate complex thickener, is biodegradable, renewable, non-toxic, and non-bioaccumulative. Its proprietary technology meets environmental standards while providing high-performance protection for greased machinery.

BioMax Multi-Purpose EP Grease delivers exceptional extreme-pressure and anti-wear performance, high thermal and oxidative stability, and a wide operating temperature range. It also provides excellent rust and corrosion protection and outstanding resistance to water washout and spray-off. This is especially critical in harsh marine environments where equipment is exposed to wet and highly corrosive conditions.



BE/027/007



Nonfood Compounds
H1

PERFORMANCE & OTHER ADVANTAGES

STRONG EXTREME PRESSURE & ANTI-WEAR PROTECTION AND HIGH LOAD-CARRYING CAPACITY

– Provides superior protection in heavy rolling and sliding applications and against shock loads.

EXCELLENT MECHANICAL STABILITY – Resists shearing and loss of consistency after prolonged rolling and working of the grease.

OUTSTANDING RESISTANCE TO WATER WASHOUT & SPRAY-OFF – Stays in place and resists displacement by water immersion and spray, critical in harsh marine and wet environments where grease loss can quickly lead to wear and unplanned downtime.

EXCEPTIONAL CORROSION & RUST PROTECTION

– Helps prevent internal damage to equipment from chemical attack.

HIGH THERMAL & OXIDATIVE STABILITY – Supports longer service life and cleaner systems.

WIDE OPERATING TEMPERATURE RANGE – Helps equipment run reliably in both hot and cold conditions.

ECO-FRIENDLY – Readily biodegradable grease with low toxicity to aquatic organisms, formulated with renewable raw materials. Contains no MOSH or MOAH.

TYPICAL APPLICATIONS & INDUSTRIES

- Plain and rolling element bearings, open gears, sliding surfaces, and other greased components operating in, but not limited to:
 - Marine equipment used in inland waterways, offshore and shipping ports
 - Construction and mining mobile and stationary equipment
 - Forestry service equipment
 - Waterparks and water treatment facilities
 - Food manufacturing and pharmaceutical equipment
 - Steel mills and other metal foundries
 - Power generation



BIOMAX™ MP EP GREASE

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CERTIFICATIONS

- Ecolabel License No. BE/027/007
- NSF H1 – Registered for use in equipment where incidental food contact may occur
- Halal
- Kosher
- US EPA VGP (2013) and VIDA

TECHNICAL DATA

Property	
NLGI Grade	2
Color	Beige
Thickener Type	Calcium Sulfonate
Worked 60 Penetration ASTM D217	265
Viscosity @ 100°C , cSt ASTM D445	16.4
Viscosity @ 40°C , cSt ASTM D445	103
Viscosity Index ASTM D2270	173
Dropping Point °C (°F) ASTM D2265	>300 (>572)
Oil Separation 24 hrs @ 25°C, 1.75 kPa (0.25 psi), % bleed, ASTM D1742	<1.3
Oil Separation 30 hrs @ 100°C, % bleed, ASTM D6184	<4.8
Water Washout @ 79°C , % ASTM D1264	<1.5
Roll Stability Dry % ASTM D1831	1.90%
Roll Stability Water % ASTM D8022	1.19%
Rust Test Emcor 3% NaCl, ASTM D6138	0, 0
Rust Test Emcor 100% Syn. Sea Water, ASTM D6138	0, 1
Corrosion Prevention DI H ₂ O, ASTM D1743	Pass
Corrosion Prevention Sea H ₂ O, ASTM D5969	Pass
Copper Corrosion 24 hrs @ 100°C, ASTM D4048	1A
Elastomer Comp SRE-NBR, Volume %, ASTM D4289	+2
Elastomer Comp SRE-NBR, Hardness %, ASTM D4289	-1
Fretting Wear Protection mg ASTM D4170	<10
Four-Ball Wear @ 75°C , 1,200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D2266	<0.45
Four-Ball EP Weld Point kgf, ASTM D2596	620
Four-Ball EP Load Wear Index kgf, ASTM D2596	105
Timken OK Load lbs, ASTM D2509	>75
SRV-EP 80°C, 1 mm Stroke, 50 Hz Frequency, Ball on Disc, Max. load w/o seizure, N, ASTM D5706	1,300
Useful Temperature Range °C (°F)	-40 to 177 (-40 to 350)

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