

TECHNICAL DATA SHEET

BioMax Multi-Purpose EP Grease 2

ENVIRONMENTALLY ACCEPTABLE GREASE

Royal Purple's BioMax calcium sulphonate grease, made from a novel, biodegradable, renewable, non-toxic, non-bioaccumulative, synthetic thickener, is formulated for equipment operating in environmentally sensitive areas, and where incidental food contact may occur, as well as other industry applications. This patentable technology provides high-performance, uncompromised protection for greased machinery while meeting environmental standards.

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

BioMax Multi-Purpose EP Grease 2 is EU Ecolabel, NSF H-1, Kosher & Halal certified. It meets US EPA VGP and 2018 VIDA, and contains **no MOSH and no MOAH**.

APPLICATIONS

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

PERFORMANCE ADVANTAGES

- EXCELLENT MECHANICAL STABILITY Resists shearing and loss of consistency after prolonged rolling/working of the grease
- · HIGH LOAD CARRYING CAPACITY Provides superior protection in heavy rolling and sliding applications and against shock loads
- OUTSTANDING WATER RESISTANCE Stays in place and resist displacement by water immersion and spray
- EXCEPTIONAL CORROSION & RUST PROTECTION Prevents internal damage to equipment from chemical attack
- ECO-FRIENDLY Readily biodegradable grease, with low toxicity to aquatic organisms, formulated with renewable raw materials

SPECIFICATIONS AND APPROVALS

- EU Ecolabel License No. BE/027/004
- · NSF H-1 Food Grade

Halal

- US EPA VGP (2013) and VIDA
- · Kosher Pareve



BE/027/004



To the best of our knowledge, the information contained herein is accurate, but is given without warranty or guarantee. We assume no liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any information or material for the use contemplated, the name of use and whether there is any infringement of patents is the sole responsibility of the user.



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Typical Physical Properties		
Property	Test	
	Method	
NLGI Grade		2
Thickener Type		Ca Sulfonate
Worked Penetration	ASTM D217	265
Base Oil Viscosity @40°C, cSt	ASTM D445	103
Base Oil Viscosity @100°C, cSt	ASTM D445	16.4
Base Oil Viscosity Index	ASTM D2270	173
Dropping Point, °C (°F)	ASTM D2265	>300 (>572)
Oil Separation, Storage @ 25°C, %	ASTM D1742	<1.3
Oil Seperation, Con. Sieve @100°C, %	ASTM D1684	<4.8
Water Washout @ 79°C, %	ASTM D1264	<1.5
Roll Stability, dry, %	ASTM D1831	1.90%
Roll Stability, with water, %	ASTM D8022	1.19%
Elastomer Comp, SRE-NBR, volume %	ASTM D4289	+2
Elastomer Comp, SRE-NBR, hardness%	ASTM D4289	-1
Rust and Corrosio	n Protection	
Corrosion Prevention Test @ 52°C	ASTM D1743	Pass
Corrosion Test, 10% syn. seawater	ASTM D5969	Pass
Rust Test, Emcor 3% NaCl	ASTM D6138	0, 0
Rust Test, Emcor 100% syn. sea water	ASTM D6138	0, 1
Copper Corrosion, 24hr @ 100°C	ASTM D4084	1A
Wear and Extreme Pressure Properties		
Fretting Wear Protection, mg	ASTM D4170	<10
4-Ball Wear Test, Scar Dia., mm	ASTM D2266	< 0.45
4-Ball EP Test, Weld Load, kg	ASTM D2596	620
4-Ball EP Test, Load Wear Index	ASTM D2596	105
Timken EP Test, OK Load, lb	ASTM D2509	>75
EP Properties, SRV @ 80°C, N	ASTM D5706	1,300
Useful Temperature Range,°C (°F)	ASTM D5800	-40 to 177 (-40 to 350)

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