

JAX BIO-GUARD™ GREASES

EAL Lubricant for Heavy Duty Applications

PRODUCT DESCRIPTION

JAX Bio-Guard Greases are EAL, biodegradable lubricants for heavy duty applications where water resistance and load carrying properties are primary concerns. JAX Bio-Guard Greases offer the performance of a conventional heavy duty extreme pressure grease and will not sacrifice water resistance, wear protection or mobility.

PRODUCT BENEFITS

- **Conforms to Major Environmental Standards**—JAX Bio-Guard Greases are formulated with high performance, Group V ester base fluids. This results in high quality greases that meet EAL standards. This includes European Eco-label which satisfies US EPA requirements for EAL lubricants meeting Vessel General Permit for Discharges incidental to the Normal Operation of Vessels (VGP). These standards ensure compliance in terms of biodegradability, toxicity and bioaccumulation potential.
- **Excellent Resistance to Water** —The purpose of grease lubrication is to be functional in areas that cannot contain fluid lubricants. JAX Bio-Guard Greases are formulated to resist water washout at unprecedented levels for EAL greases and match heavy duty industrial standards of performance. Carefully selected thickeners, polymers and additives make this accomplishment impressive given the typical hydroscopic attributes of EAL ester base fluids.
- **Exceptional Extreme Pressure and Antiwear Performance**—JAX Bio-Guard Greases yield impressive results in all areas of wear and extreme pressure protection, beyond any other EAL greases on the market today.



APPLICATIONS

- All grease applications on seaborne transit vessels and mobile dredging equipment where there is preferred or mandated use of EAL classified lubricants
- All grease applications where water or ground contamination is a concern



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TYPICAL PROPERTIES	BIO-GUARD GREASE 1	BIO-GUARD GREASE 2	METHOD
NLGI Grade	1	2	
Penetration, Unworked, mm/10	310-340	265-295	ASTM D 217
Penetration, Worked 60 Strokes, mm/10	310-340	265-295	ASTM D 217
Dropping Point, °F (°C)	450 (232.2)	500 (260)	ASTM D 2265
Four Ball Weld, kgf	400	500	
Four Ball Wear, mm	0.55	0.55	ASTM D 2266
Copper Corrosion	1b	1b	ASTM D 4048
Water Spray Off, 100°F (% Loss)	35.0	25.0	ASTM D 4049
Water Washout, 79°C (% loss)	10.0	8.0	ASTM D 1264

JAX products undergo continual improvement in formulation and manufacture. The values indicated in this PDS are typical production values at the time of this writing. JAX reserves the right to alter and update product data and typical values at any time without notice. It is the responsibility of the installer and/or purchaser to determine if these specifications are adequate and proper for the intended application. MSDS information may be found at jax.com or by contacting JAX INC.

COMPATIBILITY

JAX Bio-Guard Greases exhibit excellent compatibility with most EAL and industrial greases. However, thickener chemistries may be incompatible at different levels.

Please consult with your JAX Sales Representative regarding question about specific applications.

PACKAGING

CONTAINER SIZE	BIO-GUARD GREASE 1	BIO-GUARD GREASE 2
400 Pound Drum	BGGR1-400	BGGR2-400
120 Pound Keg	BGGR1-120	BGGR2-120
35 Pound Pail	BGGR1-035	BGGR2-035
50 Cartridge Case	BGGR1-050	BGGR2-050
10 Cartridge Pack	BGGR1-052	BGGR2-052