

BIOGREASE GP

Overview: BIOGREASE GP is a general purpose grease for a variety of applications. This environmentally friendly grease is formulated from high purity vegetable oils and thickened with shear stable lithium soap. The additive package contains the latest in ashless, rust and antiwear technology in an ultra-low toxicity product. BioGrease GP utilizes an optimized blend of polymers which enable the product to function at temperatures well beyond the limits of other pure vegetable products. Available in NLGI grades 00, 0, and 1.

Specifications, Approvals, Recommendations:

- USDA BioPreferred Program
- Classified as Environmentally Acceptable Lubricants (EAL's) as per the EPA's 2013 U.S. Vessel General Permit (VGP)

Physical Properties	GP 00	GP 0	GP 1
NLGI Grade	00	0	1
Penetration, ASTM D217	410-430	355-385	310-340
Color	Amber	Amber	Amber
Thickener	Lithium 12	Lithium 12	Lithium 12
Texture	Smooth	Smooth	Smooth
Viscosity, ASTM D445 @40°C, cSt	100	27.5	64.6
Viscosity, ASTM D445 @100°C, cSt	21	6	14
Flash Point, ASTM D92, °F (°C)	520 (271)	510 (266)	510 (266)
Fire Point, ASTM D92, °F (°C)	520 (271)	510 (266)	510 (266)
Copper Corrosion, ASTM D4048	1A	1A	1A
Rust Test, ASTM D1743, A & B	PASS	PASS	PASS
Environmental Stewardship: Meets EPA requirements to be classified as an EAL per the 2013 VGP			
Readily Biodegradable (meaning >60%) OECD 301B, %	PASS >60	PASS >60	PASS >60
Minimally Toxic	PASS	PASS	PASS
OECD 201 - Algae (EC 50), 72 hr, mg/L	>32,000 mg/L	>32,000 mg/L	>32,000 mg/L
OECD 202 - Daphnia (EC 50), 48 hr, mg/L	>26,000 mg/L	>26,000 mg/L	>26,000 mg/L
OECD 203 - Fish (LC 50), 96 hr, mg/L	>56,000 mg/L	>56,000 mg/L	>56,000 mg/L
Not Bioaccumulative* [*Calculated value as per EPA standard]	PASS	PASS	PASS
Additional Environmental Features and Characteristics			
Bio-based Content, ASTM D6866, %	>90	>90	>90

Applications & Industries: Any industry (hydroelectric powered dams, construction, refuse, mining, dredging, marine, agriculture, oil & gas, plant operations, etc.) utilizing equipment with a need for a general purpose grease, especially systems where a release into the environment is possible or where a leak or spill could reach a waste stream. Suitable for use in automatic lubrication systems or via manual application.



For more information about this and our other products contact us at Zen Earth Corp 877.769.7632 or at email products@zenearthcorp.com.

