

HonuBio OG

Biodegradable Open Gear Grease NLGI 1



Next Generation Sustainable Lubrication Technologies

PRODUCT NAME

HE-BioOG Open Gear Grease NLGI 1

MANUFACTURER

Honu Eco Sustainable Solutions, Inc.
200 Mayfly Way
Simpsonville, South Carolina 29680

DESCRIPTION

HE-BioOG is an open gear NLGI 1 grease formulated from a blend of readily biodegradable, natural and synthetic ester base oils. It is a lithium grease designed to provide tackiness and superior adhesion properties. Capable of handling loads at slow speeds in wet environments.

FEATURES AND BENEFITS

- Very tacky formulation to help withstand high moisture environments
- Readily biodegradable
- Excellent at handling loads at slow speeds

PACKAGING

- 25 Pack of Caulk Tubes

SUITABLE USES

Trunnion wheels, Ball mills, Slides Rails and Augers used in the mining, marine and hydroelectric industries.

LIMITATIONS

Not designed for ultra-heavy loads. If you are unsure of application load and scale, please contact your Honu Eco representative to review your application prior to use.

STORAGE AND SHELF LIFE

Storage – Keep in a cool, dry and well-ventilated place. Store in a properly labelled, original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. To help maintain product quality, do not store in heat or direct sunlight.

Shelf Life - Product shelf life is 24 months from date of packaging. In some cases, product can last longer, please contact your Honu Eco representative for proper testing and confirmation instructions.

CAUTIONS

Ensure adequate ventilation. Do not breathe vapor/dust. Use personal protective equipment and avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. See the Safety Data Sheet (SDS) for emergency, proper handling and disposal information.

APPLICATION

- Follow recommendations provided in your equipment's owner's manual
- Follow your organization's manuals and/or best practices for preparation, cleaning, conversion, application and ongoing maintenance practices
- If you have further questions, please contact Honu Eco Tech Services by filling out the contact us form on honueco.com

AVAILABILITY

Worldwide.

TECHNICAL SERVICES

For additional information including the Safety Data Sheet (SDS), Frequently Asked Questions, and Glossary please visit honueco.com.

APPROVALS AND CERTIFICATIONS

Classified as environmentally acceptable lubricants (EAL's) as per the EPA's guidance document that defines standards for environmentally acceptable lubricants (EPA 800-R-11-002) and as required by EPA's 2013 U.S. Vessel General Permit (VGP)

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Typical Properties

Property	ASTM Test Method	HonuBio OG
Product Code		HBOG-1
NLGI Grade		1
Appearance / Texture		Smooth / Very Tacky
Color		Black
Thickner Type		Lithium
Base Oil Type		Synthetic Ester / Natural Ester
Base Oil Viscosity @40°C, cSt	D-445	1908
Base Oil Viscosity @100°C, cSt	D-445	227.4
Viscosity Index (VI)	D-2270	258
Penetration, Unworked	D-217	325
Penetration, Worked, 60x	D-217	325
4 Ball Weld (kg)	D-2596	620
4 Ball Wear, Coefficient of friction	D-2266	0.66 mm (COF=0.058)
Water Spray off, % loss	D-4049	2.9
Copper Corrosion, Rating	D-4048	1B
Evaporation Loss, % loss	Proprietary Method	325
Rust Test, DI Water	D-1743	325
Dry Roll Stability, 2 hrs @ 25°C	D-1831	620
Wet Roll Stability, 10 % Water, 2hrs@ 25°C	D-1831	15.12
Brookfield Viscosity, T-C Spindle 0°C		1,192,000 cP
-10 °C		1,168,000 cP
20 °C		6,960,000 cP
Lincoln Ventmeter, psi @ 0°C 32°F		320 psi
-10°C/14° F		650 psi
-20°C/-4° F		1180 psi
BioBased Content %	D-6866	>67
Biodegradability	OECD 301B (>60 PASS)	>67

The values quoted above are typical of normal production. They do not constitute a specification. Honu Eco makes no representations, guarantees or warranties, expressed or implied, including but not limited to any implied warranty of merchantability or fitness for a particular purpose, or as to the correctness or sufficiency of data herein presented. All risk and liability regarding use, conditions of use and handling of this product are assumed by the buyer and any user. No agent, representative, or employee of this company is authorized to vary any of the terms of this notice. To continue to provide superior quality, Honu Eco reserves the right to change the composition of its products without notice.

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