

HonuBio HDM 2

Biodegradable Heavy-Duty Grease

NLGI 2 - 5% Moly



Next Generation Sustainable Lubrication Technologies

PRODUCT NAME

HDM BioGrease Biodegradable Heavy-Duty Grease
NLGI 2 - 5% Moly

MANUFACTURER

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

DESCRIPTION

HDM BioGrease is a premium quality biobased, biodegradable grease formulated from USA-grown natural esters, lithium-based thickener and extreme pressure additives for maximum performance.

FEATURES AND BENEFITS

- Fortified with molybdenum disulphide for added protection
- Contains extreme pressure additives minimize friction and wear
- Superior lubricity reduces heat and lessens energy consumption
- Higher flash point than petroleum greases for increased safety
- Biodegradable formula reduces damage to the environment
- Meets EPA's Environmental Preferable Purchasing (EPP) criteria
- Manufactured from renewable USA-grown natural esters
- Meets NLGI LB classification for chassis lubricant

SUITABLE USES

- Ideal for heavy load applications
- Use in applications specifying a molybdenum disulfide content
- Excellent for extreme pressure applications
- Recommended for construction, mining, farm and plant machinery
- Recommended for environmentally sensitive areas near waterways

PACKAGING

- 14 oz Cartridges
- 35 lb. Pail
- 400 lb. Drum
- 2100 lb. Totes

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

Properties	ASTM Test Method	HDM BioGrease
Product Code		HDMBG5-2
NLGI Grade		2
Color		Charcoal to Black
Cone Penetration, Worked (60x)		265-295
Dropping Point °C		170
Four Ball Wear Load, kg		500
Four Ball Wear Scar, mm		0.55
Oil Separation, %		<5%
Base Oil Viscosity @40°C, cSt		220
Base Oil Viscosity @100°C, cSt		36
Base Oil Viscosity Index (VI)		214
Base Oil Flash Point °C		326
Base Oil Biodegradability	OECD 301	Pass
Base Oil Aquatic Toxicity	OECD 202	Non-Toxic
Base Oil Plant Toxicity	OECD 208	Non-Toxic

Biobased/Biodegradable/Non-Bio accumulative

Based on evaluation of the base oils and the finished products, Honu Eco biobased products are designed to be biodegradable, aquatically non-toxic, not bioaccumulative and has no impact on plants as determined by known test methods. Nevertheless, the use of all Honu Eco products is subject to the local ordinances and ultimate responsibility for impact remains with user.

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.