

PRODUCT NAME

BioGrease HDS XT 2 – Biodegradable Synthetic Extra Tacky Grease, NLGI 2

MANUFACTURER

BioBlend Renewable Resources, LLC.
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DESCRIPTION

BioGrease HDS XT 2 is a biodegradable, minimally toxic, synthetic lithium complex grease formulated to provide high film strength, withstand high operating temperatures, and maintain excellent stability. BioGrease HDS XT 2 features a high viscosity base oil for high load carrying capabilities. BioGrease HDS XT 2 also has excellent anti-wear, enhanced water washout properties, and high temperature stability. It is designed for heavy-duty use in a variety of industrial, mobile, and marine applications.

FEATURES AND BENEFITS

- Extra tacky formulation
- Excellent Anti-wear properties
- Enhanced water washout properties
- Withstands high operating temperatures
- High viscosity for high load carrying capabilities

PACKAGING

- 35 Lb Pails
- 120 Lb Kegs
- 400 Lb Drums
- 10 Packs of 14 oz cartridges
- Totes

SUITABLE USES

- This product contains proprietary tackifier additives that make it ideal for marine construction, pins, bushings, and sheave applications
- Any industry (hydroelectric powered dams, construction, refuse, mining, dredging, marine, agriculture, 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

COMPATIBILITY

- **Compatibility for Intended Equipment –** Usage in equipment that needs a general

purpose / EP grease with a higher base oil viscosity (200 cSt)

- **Lubricant Compatibility** – Lithium based grease – check compatibility charts or contact your BioBlend representative.
- **Seal & Paint Compatibility** – Compatible with most seals and paints. (Other than low Buna N (<33%) seals.)

LIMITATIONS

Not intended for high speed (>2,000 rpm) wheel bearing applications.

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 BioBlend 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 BioBlend Tech Services by filling out the contact us form on bioblend.com

AVAILABILITY

Worldwide

TECHNICAL SERVICES

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

TYPICAL PROPERTIES

Property	ASTM Test Method	HDS XT 2
Product Code		BG32004XT
NLGI Grade		2
Base Oil Type		Synthetic Ester (ISO 220)
Appearance		Tacky
Worked Penetration, 60 Strokes	ASTM D217	265 - 295
Dropping Point, °C	ASTM D225	255
Base Fluid Viscosity at 40 °C, cSt	ASTM D445	195.7
4-Ball Weld, kg	ASTM D2596	400
4-Ball Wear Scar Dia, mm	ASTM D2266	0.59
Water Washout at 79°C, % Loss	ASTM D1264	4.2
Water Sprayoff, % Loss	ASTM D4049	13.6
Roll Stability, Pts Change	ASTM D1831	+8
Water Stability, Pts Change After Shell Roll	ASTM D7342	+31
Copper Corrosion	ASTM D4048	1B
Readily Biodegradable (meaning>60%)		Pass
Biodegradability, %	OECD 301B	>60
Minimally Toxic		Pass
Algae (EC 50), 72 hr, mg/L	OECD 201	>26,000
Daphnia (EC 50), 48 hr, mg/L	OECD 202	>13,000
Fish (LC 50), 96 hr, mg/L	OECD 203	>40,000
Not Bioaccumulative (Calculated value as per EPA standard)		Pass
Bio-based Content, %	ASTM D6866	86

The values quoted above are typical of normal production. They do not constitute a specification.

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