

DESCRIPTION

Biogrease Epic DR is a readily biodegradable grease formulated from natural ester base oils and an aluminum complex-based thickener. The additive package is designed to provide superior lubrication in high temperature and heavy load applications normally associated with drilling operations, especially the lubrication of drill rods in coring operations. Available in NLGI grade 3.

FEATURES & BENEFITS

- Superior adhesion to drill rods due to extremely tacky formulation
- Contains advanced extreme pressure additives for excellent protection
- Better coefficient of friction than most petroleum-based grease
- Formulated to be applied on wet surfaces
- Higher flash point than major petroleum greases for increased safety
- Effective at depths greater than 3000 feet
- Classified as an Environmentally Acceptable Lubricant (EAL) as per the EPA's 2013 U.S. Vessel General Permit (VGP)

SUITABLE USES

Any drilling or coring application (geotechnical, oil & gas, mining, etc.) utilizing equipment with a need for a special purpose drill rod grease, especially systems where a release into the environment is possible or where a leak or spill could reach a waste stream.

APPLICATION / TECHNICAL SUPPORT

- Follow recommendations provided in your equipment owner's manual
- Follow your organization's best practices for preparation, cleaning, conversion, application, and ongoing maintenance practices
- **Technical Support** - If you have further questions, please fill out contact form on bioblend.com and one of our team will contact you to review your question(s)

APPROVALS / CERTIFICATIONS

- eSyn Certified
- Classified as environmentally acceptable lubricants (EAL's) as per EPA standards for biodegradability, toxicity and bioaccumulation in aquatic environments.

PACKAGE SIZES

- 35 Lb Pail
- 400 Lb Drum

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.

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.

AVAILABILITY

Worldwide

TYPICAL PROPERTIES

Technical Properties	Test Method	EPIC DR
Product Code		BGEPICDR
NLGI Grade		3
Appearance		Golden Brown
Thickener Type		Aluminum Complex
Base Oil Viscosity @40°C, cSt	ASTM D445	460
Base Oil Viscosity @100°C, cSt	ASTM D445	58
Base Oil Viscosity Index (VI)	ASTM D2270	196
Base Oil Flash Point °F (°C)	ASTM D92	619 (326)
Dropping Point, °C	D225	>240
Cone Penetration, Unworked	D217	220-250
Performance Properties		
Four Ball Wear Scar, mm	D2266	>0.45
Four Ball Wear Load, kg	D2596	>500
Oil Separation, %	D6184	<5
Readily Biodegradable (meaning>60%)		Pass
Biodegradability, %	OECD 301B	> 60
Daphnia (EC 50), 48 hr	OECD 202	Non-Toxic
Base Oil Plant Toxicity	OECD 208	Non-Toxic
Not Bioaccumulative (Calculated value as per EPA standard)		Pass

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

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APPROVALS / CERTIFICATIONS LOGOS

