

Overview ▶ Biogrease Epic Drill Rod is a readily biodegradable drilling lubricant (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. Available in NLGI grade 3.



Biogrease EPIC Drill Rod is formulated featuring our proprietary **eSyn™** technology. Available in NLGI grade 3.

Typical Properties ▼

Property	ASTM Test Method	Drill Rod # 3
Product Code		BG32004DR
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)
Cone Penetration, Unworked	D217	220-250
Four Ball Wear Scar, mm	D2266	>0.45
Four Ball Wear Load, kg	D2596	>500
Dropping Point, °C	D225	>240
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

Key Attributes / Approvals ▶



Any Drilling industry (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.

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

See the Safety Data Sheet (SDS) for emergency, proper handling and disposal information.

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