

DESCRIPTION

BioGear FS is a biodegradable, industrial, extreme pressure gear oil formulated from synthetic ester base stocks. The combination of these high-quality base oils and a robust additive package allows for maximum equipment protection for extended drain intervals, while simultaneously providing protection for the environment. The additional lubricity of the fluid allows for efficient operation in demanding conditions.

FEATURES & BENEFITS

- Provides superior performance and protection in wide temperature ranges and extended drain intervals
- Excellent reduction of friction (lubricity) for efficiency in demanding conditions
- USDA BioPreferred Program – Meets the biobased content standards for use in federal projects
- Meets AGMA 9005-E02 Industrial Gear Specification

SUITABLE USES

To be used in industrial gear applications across a wide range of industries especially where a full synthetic product is recommended, equipment runs in a wide operating temperature range or there is a desire to extend drain intervals. Use in equipment where a release into the environment is possible, where the authorities have mandated the usage of an EAL, 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
- USDA BioPreferred Program – 81% Biobased content

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

PACKAGE SIZES

- 5 Gal Pails
- 55 Gal Drums
- 275 Gal Totes

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	100	150	220	320	460
Product Code		BGFS100	BGFS150	BGFS220	BGFS320	BGFS460
ISO Grade		100	150	220	320	460
Specific Gravity	ASTM D1298	.87	.87	.87	.87	.87
Viscosity @40°C, cSt	ASTM D445	100	150	220	320	460
Viscosity @100°C, cSt	ASTM D445	15	19	27	36	46
Viscosity Index (VI)	ASTM D2270	>160	>160	>160	>160	>160
Performance Properties						
Pour Point °F (°C)	ASTM D97	-43.6 (-42)	-43.6 (-42)	-40 (-40)	-40 (-40)	-40 (-40)
Flash Point °F (°C)	ASTM D92	450 (232)	470 (243)	>500 (260)	>515 (268)	>527 (275)
Gear Lubrication, FZG Load Stage	DIN 51354	13+	13+	13+	13+	13+
Water Separation, min	ASTM D1401	25	25	25	25	25
Copper Corrosion	ASTM D4048	1A	1A	1A	1A	1A
Rust Test, A & B	ASTM D665	Pass	Pass	Pass	Pass	Pass
Readily Biodegradable (meaning>60%)		Pass	Pass	Pass	Pass	Pass
Biodegradability, %	OECD 301B	>60	>60	>60	>60	>60
Minimally Toxic		Pass	Pass	Pass	Pass	Pass
Algae (EC 50), 72 hr, mg/L	OECD 201	>18,000	>18,000	>18,000	>18,000	>18,000
Daphnia (EC 50), 48 hr, mg/L	OECD 202	>11,000	>11,000	>11,000	>11,000	>11,000
Fish (LC 50), 96 hr, mg/L	OECD 203	>23,000	>23,000	>23,000	>23,000	>23,000
Not Bioaccumulative (Calculated value as per EPA standard)		Pass	Pass	Pass	Pass	Pass
Bio-based Content, %	ASTM D6866	>78	>78	>78	>78	>78

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

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APPROVALS / CERTIFICATIONS LOGOS

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