

Overview ▶ BioGear EPS is a line of industrial gear oils formulated to provide excellent protection in a wide variety of industrial and mobile equipment. The blend of natural ester and synthetic base oils enable BioGear EPS to perform at high levels for extended periods of time and fit within the AGMA definition of industrial gear oils. BioGear EPS reduces operating temperatures and wear.



BioGear EPS is formulated featuring our proprietary **eSyn™** technology and is available in ISO Grades 100,150 and 220.

Typical Properties ▼

Property	ASTM Test Method	EPS 100	EPS 150	EPS 220
Product Code		BG4100100S	BG4100150S	BG4100220S
ISO Grade		100	150	220
Specific Gravity	ASTM D1298	.91	.91	.91
Viscosity @40°C, cSt	ASTM D445	100	150	220
Viscosity @100°C, cSt	ASTM D445	25.2	25.2	33.0
Viscosity Index (VI)	ASTM D2270	>220	>220	>220
Pour Point °F (°C)	ASTM D97	-30 (-34)	-30 (-34)	-25 (-31)
Flash Point °F (°C)	ASTM D92	>500 (260)	>500 (260)	>500 (260)
Timken OK Load, lbs	ASTM D2509	>60lbs	>60lbs	>60lbs
Falex EP Fail Load,	ASTM D3233	3500	3500	3500
Gear Lubrication, FZG Load Stage	DIN 51354-2	12	12	12
Recommended for Agma No.		3EP	4EP	5EP
Copper Corrosion	ASTM D4048	1A	1A	1A
Rust Test, A & B	ASTM D665	Pass	Pass	Pass
Readily Biodegradable (meaning>60%)		Pass	Pass	Pass
Biodegradability, %	OECD 301B	>85	>85	>85
Minimally Toxic		Pass	Pass	Pass
Algae (EC 50), 72 hr, mg/L	OECD 201	>14,000 mg/L	>14,000 mg/L	>14,000 mg/L
Daphnia (EC 50), 48 hr, mg/L	OECD 202	>20,000 mg/L	>20,000 mg/L	>20,000 mg/L
Fish (LC 50), 96 hr, mg/L	OECD 203	>30,000 mg/L	>30,000 mg/L	>30,000 mg/L
Not Bioaccumulative (Calculated value as per EPA standard)		Pass	Pass	Pass
Bio-based Content, %	ASTM D6866	>85	>85	>85

Key Attributes / Approvals ▶



To be used in industrial gear applications across a wide range of industries. 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.

- USDA BioPreferred Program
- 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)

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

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