

ENVIROLOGIC® GO SERIES

Readily Biodegradable* Synthetic Gear Oils

The ENVIROLOGIC® GO Series is comprised of readily biodegradable synthetic gear oils for use in a wide variety of marine applications where incidental exposure of oil to the environment is of concern. In addition to being readily biodegradable and non-sheening, these products have unparalleled antiwear and extreme pressure properties, excellent corrosion and rust protection and outstanding system cleanliness characteristics.

In fact, the ENVIROLOGIC® GO Series meets the most stringent FZG wear and extreme pressure test combinations of temperature, speed and pressure. So not only can these products directly replace petroleum based products of the same viscosity, but they perform as well as or better than those potentially hazardous oils.

- 2013 EPA VGP Compliant
- Certified as an Environmentally Acceptable Lubricant (EAL)
- Non-sheening**
- Readily biodegradable, biodegrades $\geq 60\%$ within 28 days*

Typical Properties		ENVIROLOGIC® GO Series				
ENVIROLOGIC® Product Number		GO 68	GO 100	GO 150	GO 220	GO 320
ISO Viscosity Grade		68	100	150	220	320
AGMA Grade		2EP	3EP	4EP	5EP	6EP
Viscosity, ASTM D445, cSt.	@ 100°C	12	18	23	31	41
	@ 40°C	68	100	150	220	320
Viscosity Index		> 175	> 175	> 175	> 175	> 175
Pour Point, ASTM D97, °C		-42	-39	-39	-36	-33
Flash Point, ASTM D92, °C		> 180	> 180	> 180	> 180	> 180
Specific Gravity, 60°F		0.857	0.856	0.855	0.854	0.853

Performance Properties		ENVIROLOGIC® GO Series				
ENVIROLOGIC® Product Number		GO 68	GO 100	GO 150	GO 220	GO 320
Rust, D665A (Distilled Water)		Pass	Pass	Pass	Pass	Pass
Rust, D665B (Synthetic Seawater)		Pass	Pass	Pass	Pass	Pass
Copper Corrosion, 100°C, 3 hrs.		1b	1b	1b	1b	1b
IGO Oxidation Stability; USS S-200 test		Pass	Pass	Pass	Pass	Pass
Demulsibility, D1401	Oil/Water/Emulsion	40/40/0	40/40/0	40/40/0	40/40/0	40/40/0
	Minutes	5	10	10	10	10

*As per OECD 301B

**CFR40 Part 435B

Performance Properties (cont.)		ENVIROLOGIC® GO Series				
ENVIROLOGIC® Product Number		GO 68	GO 100	GO 150	GO 220	GO 320
Foam Properties, ASTM D892	Sequence I, Tendency/Stability	10/0	10/0	10/0	10/0	10/0
	Sequence II, Tendency/Stability	10/0	10/0	10/0	10/0	10/0
	Sequence III, Tendency/Stability	10/0	10/0	10/0	10/0	10/0
Four Ball EP Test	Weld Load, kg	315	315	315	315	315
	LWI, kg	48.7	48.7	48.7	48.7	48.7
Timken EP, ASTM D2782, Pass lbs.		> 65	> 65	> 65	> 65	> 65
FZG, ASTM D5182, Pass stage		> 14	> 14	> 14	> 14	> 14
Elastomer Compatibility	SRE-NBR (100°C, 168 hours)	Pass	Pass	Pass	Pass	Pass
	FKM (150°C, 168 hours)	Pass	Pass	Pass	Pass	Pass
Biodegradability, OECD 301B, %		> 60	> 60	> 60	> 60	> 60

Standards and Specifications

ENVIROLOGIC® GO Series meets the following gear oil standards and specifications:

- AGMA 9005 E02
- AGMA 250.04/251.02
- Cincinnati EP Gear Oils
- David Brown S1.53.101
- DIN 51517, Part 3
- ISO 12925-1 CKC/CKD
- U.S. Steel 224

OEM Approvals

ENVIROLOGIC® GO Series meets the requirements of major industrial gear equipment manufacturers. Please contact customer service for a full list of OEM approvals.

For more information about RSC Bio Solutions, visit us at rscbio.com or call +1 704.684.6100.

