

READILY BIODEGRADABLE, INDUSTRIAL ISO 220 GEAR OIL

Description

RSC *EnviroLogic*® GO 220 is a readily biodegradable gear oil for use in industrial applications. RSC *EnviroLogic*® GO 220 is an ISO 220 viscosity grade, AGMA 5EP oil, having the highest anti-wear/extreme pressure properties, excellent corrosion and rust protection, and outstanding system cleanliness characteristics. The excellent performance characteristics of RSC *EnviroLogic*® GO 220 make it suitable in a wide variety of industrial gear applications where incidental exposure of the oil to the environment is of concern. Examples are off-shore oil and gas, marine transportation & construction, steel milling, mining, and power utility operations. In addition, it can directly replace petroleum oil based products of the same viscosity, yet has reduced environmental impact in the event of a leak or spill, as it is readily biodegradable and non-sheening*.

RSC *EnviroLogic*® GO 220 meets most stringent extreme FZG wear/extreme pressure test combinations of temperature, speed and pressure.

It is an Environmentally Acceptable Lubricant (EAL) compliant with 2013 US EPA Vessel General Permit (VGP).

RSC *EnviroLogic*® GO Series meets the requirements for various manufacturers. Visit our [website](#) or contact customer service for a full list of OEM approvals.

Property	Method	Spec.	Result
Kinematic Viscosity	D445		
At 40°C, cSt		198.0 – 242.0	220
At 100°C, cSt			31
Viscosity Index	D2270		>175
Density(60°F), g/cm ³	D4052		0.85
Pour Point, °C	D97	-9 min.	-36
Flash Point (COC), °C	D92		180
Copper Corrosion 3 Hrs. @ 100°C	D130	1b min.	1b
Steel Pin Corrosion (4 hours, 140°F)	D665		
Deionized Water		Pass	Pass
Synthetic Salt Water		Pass	Pass
Foam Properties	D892		
Sequence I, mL	Tendency/Stability	50/0	10/0
Sequence II, mL	Tendency/Stability	50/0	10/0
Sequence III, mL	Tendency/Stability	50/0	10/0

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Property	Method	Spec.	Result
Demulse Properties (54°C) Oil / Water / Emulsion Minutes	D1401	30 max.	40 / 40 / 0 10
TOST Oxidation Hours to TAN of 2.0 mg KOH/g	D943		>1500 ---
Air Release @ 90°C	D3427 9 max.		8.0
Four Ball EP Weld Load LWI, kg	D2783 250 min. 45 min.		315 48.7
Four Ball Wear 54°C/1800 rpm/20 kg/1 Hr.	D4172 Mod. Scar, mm		0.34
Timken Wear OK Load, lbs. Fail Load, lbs.	D2782 60 min. ---		> 60 > 65
FZG Pass Stage	D5182		>14
Gear Oil Oxidation Δ 100°C K.V. @ 312 Hrs.	D2893B 6% max.		4.2%
Elastomer Compatibility Buna N (100°C 168 Hours) Viton (150°C 168 Hours)	D471 D471		Pass Pass
Biodegradability	D7373	60% min.	> 60
Ecotoxicity Fathead minnow Daphnia Algae	OECD 203 OECD 202 OECD 201	>100mg/L >100mg/L >100mg/L	> 1000 mg/L > 130 mg/L > 120 mg/L

* CFR40 Part 435B

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Updated: 12/21/16

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



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