

ANDEROL PRODUCT DATA SHEET

ROYCO® 500

SYNTHETIC TURBINE ENGINE OIL

GENERAL INFORMATION

ROYCO 500 is a 5 centistoke synthetic lubricating oil for gas turbine engines. The product is a careful blend of "hindered" esters and modern additive technology. These carefully selected components result in a product that has demonstrated excellent performance in today's modern gas turbines. ROYCO 500 provides superior high temperature corrosion protection and exhibits excellent antiwear capabilities. The product is blended to provide superior thermal and oxidative performance in critical turbine applications.

TYPICAL PROPERTIES:

PROPERTIES	ROYCO 500
Viscosity @100°C, cSt	5.13
Viscosity @40°C, cSt	25.7
Viscosity @-40°C, cSt	9400
Flash Point, °F (C.O.C.)	520
Pour Point, °F	-75
Neutralization No.	0.02
Evaporation, % loss (6 1/2 hrs/400 Deg. F)	2.5
Synthetic Rubber Swell, "H", % Swell (72 hrs/158°F)	12.2
Synthetic Rubber Swell "F", % Swell (72 hrs/400°F)	10.5
Thermal Stability (96 hrs/525 °F)	
Viscosity; @ 100°F, % Change	0.5
Acid Number Change, mg KOH/g	1.75
Metal Weight Change, mg/cm ²	0.2
Oxidation and Corrosion Stability (72 hrs/400°F)	
Corrosion	
Steel, wt. change, mg/cm ²	0.02
Silver, wt. change, mg/ cm ²	0.01
Aluminum, wt. change, mg/cm ²	0.02
Magnesium, wt. change, mg/ cm ²	0.01
Copper, wt. change, mg/ cm ²	0.01
Oxidation	
Viscosity Change @ 100°F, %	15.0
Total Acid Number Change	0.5
Contamination, mg/100 ml	5.0
Sediment, 1.2 micron filter, mg/1	1.75
Total Ash, mg	0.5
Foaming, ml initial/ml final Seq I, II, III	nil

* Qualification test not normally performed for routine quality conformance.

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For more information please refer to the relevant Material Safety Data Sheet accompanying each product.

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ROYCO 500

APPLICATIONS

ROYCO 500 was specifically developed for use in high performance turboprop and turbojet engines, as well as industrial gas turbine engines, where longer engine life is required, along with increased lubricant life. ROYCO 500 is well suited for use in engines that require minimum sludge and coke deposition. ROYCO 500 is also recommended for helicopter transmissions. This oil should only be used in applications where synthetic oils have been specified or in systems expressly designed for synthetic lubricants.

APPROVALS

ROYCO 500 meets all the requirements and is qualified under U.S. Military specification MIL-PRF-23699F Grade STD.

ROYCO 500 is approved commercially for use in aircraft engines manufactured by Pratt & Whitney, General Electric, Honeywell, Lycoming, Rolls Royce, Snecma, and Turbomeca gas turbine engines, as well as AiResearch, Garrett, and Sunstrand accessories. A detailed application list is available upon request.

ROYCO 500 is also approved for use in the industrial and marine versions of the Rolls-Royce Avon, Allison 501 Lycoming TF35, Pratt & Whitney GG3/FT3, GG4, GG12/FT12 and General Electric LM100, 350, 1600, 2500 and 5000/6000 engines as well as Turbomeca Industrial engines.

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