

ANDEROL PRODUCT DATA SHEET

ROYCO® 581

CORROSION PREVENTATIVE COMPOUND
CONCENTRATE FOR AIRCRAFT ENGINES

GENERAL INFORMATION

ROYCO 581 is a concentrated rust and corrosion preventative oil commonly used to preserve aircraft reciprocating and turbine engines. The ashless anti corrosion additive package and the highly refined petroleum base oils protect the engine by minimizing the effects of humidity and neutralizing the acidic components of engine oil oxidation and combustion by-products. ROYCO 581 is designated a preservative under Mil-STD-2073-1C.

TYPICAL PROPERTIES:

PROPERTIES	ROYCO 581
API Gravity, 60/60 °F	25.3
High & Low Temp. Stability	PASS
Kinematic Viscosity, cSt	
@ 100 °F	278
@ 210 °F	21.1
Pour Point, °F	0
Flash Point, °F	525
Carbon Residue (MCRT), % wt.	0.22
Volatility, Weight Loss, %	0.4
Viscosity after Test, 100°F, cSt	270
Viscosity after Test, 210°F, cSt	21.2
Viscosity after Test, 210°F, SUS	103.3
Viscosity Index after Test	95
Precipitation Number, ml	0.0
Ash, % wt. ASTM D-482	0.009
HBr Neutralization Test	PASS
Lead Corrosion, 300 °F/4 hrs., mg/in ²	12.2
Copper Corrosion, ASTM D-130	1B slight tarnish
Rust Protection, Humidity Cabinet	PASS
API Gravity, Mil-C-6529C Type 2	26.1

ROYCO 581

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

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APPLICATIONS

The engine to be preserved should be filled to normal capacity with the diluted preservative oil and then run at idle until the engine reaches normal operating temperature (approx. 10 - 15 minutes.) After shutdown it is recommended that the concentrated preservative compound be sprayed into the upper cylinder head areas to coat the valves, rockers, etc

ROYCO 581 is normally used as a concentrated engine oil additive for the internal preservation of engines or engine parts and accessories during moderate outdoor to long term indoor storage periods. Diluted with three parts engine oil (to MIL-L-6082 for piston engines -- which has been superseded by SAE J1966 -- or to MIL-PRF-6081 for turbine engines) the engine is then preserved for storage. This product can also be used as a "fly-away" oil for reciprocating engines however operation of engines preserved with the diluted material should be limited to a maximum of fifty hours before oil change. This additive has also been used successfully in the preservation of industrial gasoline and diesel fuelled engines as well as preservation of industrial gearboxes and machine tools.

ADVANTAGES

- Excellent rust and corrosion protection
- Prevents and reduces component wear

COMPATABILITY

NOTE: Turbine engines using synthetic engine lubricating oils should use a MIL-C-8188 corrosion preventative concentrate.

APPROVALS

ROYCO 581 is designated a preservative under Mil-STD-2073-1C.

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ANDEROL Inc.
PO Box 518, 215 Merry Lane
East Hanover, New Jersey USA
Tel: 888-ANDEROL
Or Tel: (973) 887-7410
Fax: (973) 884-3825
E-mail: info@anderol.com