

ANDEROL PRODUCT DATA SHEET

ROYCO® LGF AND ROYCO® SSF

LANDING GEAR AND STRUT FLUID

GENERAL INFORMATION

ROYCO LGF and SSF are mineral oil based hydraulic fluids designed specifically for use in aircraft landing gear systems shock struts and other fluid dampening systems. Modern additive technology for greatly improved lubricity and extreme pressure antiwear performance is used to provide the performance levels required by today's wide body aircraft.

TYPICAL PROPERTIES:

PROPERTIES	ROYCO SSF	ROYCO LGF
Kinematic Viscosity, cSt		
@ 40°C	14.5	14.5
@-40°C	560	423
@-54°C	2640	1780
Flash Point, °C	108	110
Total Acid Number, mg KOH/g	2.6	2.4
Specific Gravity, 15.6°C, g/cc	0.882	0.874
API Gravity	28.9	20.5
4-Ball Wear, scar diameter, mm ²	0.43	0.43

ROYCO LGF AND ROYCO SSF

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

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APPLICATIONS

ROYCO SSF and ROYCO LGF were specifically developed to improve "slip stiction" and to alleviate "ladder cracking" in landing gear struts due to sudden and severe shock loads encountered in these aircraft during landing. ROYCO LGF and SSF are approved for use in most current models of Boeing, Lockheed, McDonnell Douglas, Airbus, and many other manufacturers of commercial transports.

COMPOSITION

ROYCO LGF consists of hydraulic fluid conforming to MIL-H-5606 plus LUBRIZOL 1395 and other additives to improve landing gear performance.

ROYCO SSF is a preservative grade of hydraulic fluid conforming to MIL-PRF-6083 plus LUBRIZOL 1395 and other additives.

APPROVALS

ROYCO SSF and LGF are qualified to Boeing Materials Specification BMS 3-32 (Type I and II respectively). They also conform to Douglas Specification DPM-6177. Documentation supporting other transport manufacturers' specification may be obtained upon request.

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