

Lubricant Additives Business

ROYCO[®] 756 Aviation Hydraulic Fluid

Туре

HYDRAULIC FLUID, PETROLEUM BASE; AIRCRAFT, MISSILE AND ORDNANCE

Description

ROYCO[®] 756 is a red-dyed, mineral oil based hydraulic fluid developed for the severe duty demands of aerospace and industrial service. ROYCO[®] 756 contains additives that provide excellent low temperature fluidity as well as exceptional anti-wear, oxidation / corrosion inhibition, and shear stability. In addition, metal deactivators and foam inhibitors are incorporated in this high viscosity index fluid to enhance performance in many general purpose hydraulic applications.

Application

ROYCO[®] 756 is designed for use in aircraft, missiles, autopilots, shock absorbers, cherry pickers, boom trucks, robotics, and auto wreckers requiring all-weather performance. ROYCO[®] 756 is particularly recommended for use in systems where a "super clean" fluid can contribute to improved component life and reliability. ROYCO[®] 756 can be used in unpressurized systems operating at temperature ranges from -54 to 90°C (-65 to 195°F) and in pressurized systems from -54 to 135°C (-65 to 275°F) at pressures up to 3000 psi.

ROYCO[®] 756A may be used in systems not requiring a "super clean" ID.

Features and Benefits

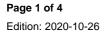
- Wide operating temperature range
- Excellent low temperature properties
- Exceptional anti-wear performance
- "Super Clean " Fluid
- · Excellent oxidation and corrosion resistance

Approvals and Specifications

ROYCO[®] 756 meets all requirements and is qualified under MIL-SPEC: MIL-PRF-5606J that supersedes MIL-PRF-5606H(3). This fluid is identified by military symbol OHA and NATO code H-515. ROYCO[®] 756A meets the technical requirements of MIL-H-5606A

Limitations

ROYCO[®] 756 and ROYCO[®] 756A should not be used in systems using natural rubber seals.





ROYCO[®] 756 Aviation Hydraulic Fluid

Technical data*

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ROYCO[®] 756

Aviation Hydraulic Fluid

PROPERTIES	TEST METHOD	ROYCO [®] 756
Viscosity, mm2/s		
@ 100 °C	ASTM D445	5.23
@ 40 °C	ASTM D445	14.2
@ -40 °C	ASTM D445	468
@ -54 °C	ASTM D445	1988
Low Temperature Stability, 72 hours @ -54 °C	FTM 3458	Pass
Pour Point, °C	ASTM D97	-66
Flash Point, °C	ASTM D93	91
Acid Number, mg KOH/g	ASTM D664	0.04
Density, Pounds per Gallon	ASTM D287	7.292
Copper Strip Corrosion, 135 °C, 72 hours	ASTM D130	1B
Water, mg/kg	ASTM D6304	54
Steel-On-Steel, average wear scar, mm	ASTM D4172	0.74
Evaporation Loss, 6 hours @ 71 °C, wt %	ASTM D972	14.6
Barium Content, mg/kg	ASTM D5185	0
Foaming Tendency, mL	ASTM D892	38
Foam Stability, mL	ASTM D892	0
Number of Particles per 100 mL		
5-15 μm	FTM 3012	1140
16-25 μm	FTM 3012	189
26-50 μm	FTM 3012	76
51-100 μm	FTM 3012	6
100+ μm	FTM 3012	0
Gravimetric Filtration, mg/100 mL, 0.45 µm	ASTM D4898	<1
Rubber Swell, Standard Synthetic Rubber L (168 hrs @ 70 °C), %	ASTM D4289	26
Relative Density @ 15.6/15.6 °C Page 3 of 4	ASTM D4052	0.8762

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ROYCO[®] 756 Aviation Hydraulic Fluid

*The analytical data are guide values.

Technical data*

PROPERTIES	TEST METHOD	ROYCO [®] 756A
Viscosity, mm2/s		
@ 130 °F	ASTM D445	10.63
@ -40 °F	ASTM D445	468
Pour Point, °C	ASTM D97	-66
Flash Point, °C	ASTM D93	91
Acid Number, mg KOH/g	ASTM D664	0.04
Density, Pounds per Gallon	ASTM D287	7.292

*The analytical data are guide values.

Packaging

ROYCO[®] 756 is available in 55 gallon drums, 5 gallon pails, 6x1 gallon cases and 24X1 quart cases. ROYCO[®] 756A is available in 6X1 gallon cases. Other package sizes may be available on special request.

Handling

Consult material safety data sheet (MSDS) for additional handling information on ROYCO®756 / 756A

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