

### ROYCO<sup>®</sup> 756 Aviation Hydraulic Fluid

#### Type

HYDRAULIC FLUID, PETROLEUM BASE; AIRCRAFT, MISSILE AND ORDNANCE

#### Description

ROYCO<sup>®</sup> 756 is a red-dyed, mineral oil based hydraulic fluid developed for the severe duty demands of aerospace and industrial service. ROYCO<sup>®</sup> 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<sup>®</sup> 756 is designed for use in aircraft, missiles, autopilots, shock absorbers, cherry pickers, boom trucks, robotics, and auto wreckers requiring all-weather performance. ROYCO<sup>®</sup> 756 is particularly recommended for use in systems where a “super clean ” fluid can contribute to improved component life and reliability. ROYCO<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 756A meets the technical requirements of MIL-H-5606A

#### Limitations

ROYCO<sup>®</sup> 756 and ROYCO<sup>®</sup> 756A should not be used in systems using natural rubber seals.



### ROYCO<sup>®</sup> 756 Aviation Hydraulic Fluid

Technical data\*



**ROYCO® 756**

## Aviation Hydraulic Fluid

PROPERTIES	TEST METHOD	ROYCO® 756
Viscosity, mm <sup>2</sup> /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	ASTM D4052	0.8762



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*\*The analytical data are guide values.*

#### Technical data\*

PROPERTIES	TEST METHOD	ROYCO <sup>®</sup> 756A
Viscosity, mm <sup>2</sup> /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<sup>®</sup> 756 is available in 55 gallon drums, 5 gallon pails, 6x1 gallon cases and 24X1 quart cases.  
ROYCO<sup>®</sup> 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<sup>®</sup> 756 / 756A

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