

ROYCO® 756/756A HYDRAULIC FLUID, AIRCRAFT, MISSILE, AND ORDINANCE PETROLEUM BASE

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 provided in this high viscosity index fluid to enhance performance in many general purpose hydraulic applications.

APPLICATIONS

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 and where the convenience of a re-sealable container can provide cost savings.

FEATURES AND BENEFITS

- **Wide operating temperature range**
- **Low temperature fluidity**
- **Exceptional anti-wear performance**
- **“Super Clean” Fluid to improve equipment life**
- **Excellent oxidation and corrosion inhibition**

APPROVALS AND SPECIFICATIONS

ROYCO® 756 meets all requirements and is qualified under MIL-SPEC: MIL-PRF-5606H(3) that supersedes Mil-H-5606G, Mil-O-5606, AN-O-336, AN-VV-O-336, and AAF-3580.

ROYCO® 756A meets the technical requirements of Mil-H-5606A.



TYPICAL PROPERTIES

PROPERTIES	TEST METHOD	ROYCO® 756
Kinematic Viscosity, cSt		
@ 100°C	ASTM D445	4.90
@ 40°C	ASTM D445	13.2
@ -40°C	ASTM D445	600
@ -54°C	ASTM D445	2500
Low Temperature Stability, -54°C, 72 hours	FTM 3458	29.8
Pour Point, °C	ASTM D97	-62
Flash Point, COC, °F	ASTM D92	231
Acid Number, mq KOH/g	ASTM D664	0.4
Density, pounds per gallon	ASTM D287	7.261
Copper Corrosion, 135°C, 72 hours, ASTM color	ASTM D130	1B
Water Content, ppm	ASTM D6304	44.9
4-Ball Wear, 75°C, 40 kg, 1200 rpm, 1 hour, mm	ASTM D4172	.58
Evaporation, 71°C, 6 hours, %wt loss	ASTM D972A	10.4
Gravimetric Filtration mg/100 ml, 0.45µ @ 25°C	Para 4.4.3	
Barium Content, ppm	ASTM D5185	1
Foam Resistance, 75°F	ASTM D892	
foam volume, ml		32
foam stability		None
API Gravity	ASTM D4052	30.8
Micron Size, count / mL		
5-15 µ	FTM 3012	963
16-25 µ	FTM 3012	120
26-50 µ	FTM 3012	36
51-100 µ	FTM 3012	5
100+ µ	FTM 3012	1
Water, Coulometric KF Titration, ppm	ASTM D6304	45

PROPERTIES	TEST METHOD	ROYCO® 756A
Pour Point, °C	ASTM D97	-63
Flash Point, COC, °F	ASTM D93	231
Acid Number, mq KOH/g	ASTM D664	.04
Density, pounds per gallon	ASTM D287	7.26
Kinematic Viscosity, cSt		
@ 130°F	ASTM D445	10.6
@ -40°F	ASTM D445	467



PACKAGING

ROYCO® 756 is available in 55-gallon drum, 5-gallon pail, 24 x 1-QT case and 6 x 1-gallon case.

ROYCO® 756A is available in 6 x 1 gallon cases. Other package sizes may be available on special request.

LIMITATIONS

ROYCO® 756 should not be used in systems using natural rubber elastomers.



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