



Royal Lubricants, Inc.

Product Bulletin
MIL-H-5606G

ROYCO 756 and ROYCO 756A HYDRAULIC FLUID, AIRCRAFT, MISSILE, AND ORDNANCE PETROLEUM BASE

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 antiwear, 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.

LIMITATIONS:

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

PACKAGING:

Hermetically sealed quart and one gallon tins, 5-gallon pails, and 55-gallon drums. Other packages may be available on special request.

SPECIFICATIONS:

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

ROYCO 756A meets Mil-H-5606A.

ROYCO 756 AND 756A

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

Warranty: All products purchased from Royal are subject to terms and conditions set out in the contract, order acknowledgement and/or bill of lading. Royal warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Royal is considered accurate but is furnished on the expressed condition that the customer shall make its own assessment to determine the product's suitability for a particular purpose. No warranty is expressed or implied regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.

TYPICAL PROPERTIES ROYCO 756 (MIL-H-5606G)

PROPERTY	SPECIFICATION	ROYCO 756
1) Pour Point, °C	-60 max	-70
2) Flash Point, COC, °C	82 min	95
3) Acid Number, mq KOH/g	0.2 max	0.0
5) Specific Gravity	Report	0.880
6) Kinematic Viscosity, cSt		
@ 100°C	4.9 min	5.13
@ 40°C	13.2 min	13.9
@ -40°C	600 max	451
@ -54°C	2500 max	1850
6) Cu Corrosion, 160°F/72hrs.	ASTM 2E max	1B
7) Water Content, ppm	100 max	50
8) 4-Ball Wear, mm ²	1.0 max	0.65
9) Evaporation, 160°F/6hrs, %	20 max	13.6
10) Gravimetric Filtration mg/100 ml, 0.45mu @ 25°C	0.3 max	0.1
Filter time, min.	15 max	6
11) Foam Resistance, 75°F		
foam volume, ml	65 max	25
foam stability	0 @ 10 min.	0
12) API Gravity	Report	29.3
13) Particle Contamination (automatic counter) Size range, mu		
5-15	10,000 max	1200
16-25	1,000 max	175
26-50	150 max	60
51-100	20 max	5
100+	5 max	0
14) Dielectric Strength, KV	Report	49.6

PROPERTY	SPECIFICATION	ROYCO 756A
1) Pour Point, °C	-60 max	-70
2) Flash Point, COC, °C	93 min	95
3) Acid Number, mq KOH/g	0.2 max	0.0
4) Precipitation. Number	0	0
5) Specific Gravity	Report	0.880
6) Kinematic Viscosity, cSt		
@ 130°F	10.0 min	10.7
@ -40°F	500 max	450
7) Viscosity Index	N/A	370

