

# ANDEROL PRODUCT DATA SHEET

## ROYCO® 756 AND ROYCO® 756A

HYDRAULIC FLUID, AIRCRAFT, MISSILE, AND ORDNANCE PETROLEUM BASE

### GENERAL INFORMATION

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.

### TYPICAL PROPERTIES:

PROPERTIES	ROYCO 756	ROYCO 756A
Pour Point, °C	-70	-70
Flash Point, COC, °C	95	95
Acid Number, mq KOH/g	0.0	0.0
Specific Gravity	0.880	0.880
Kinematic Viscosity, cSt		
@ 100°C (212 °F)	5.13	
@ 54 °C (130 °F)		10.7
@ 40°C (4 °F)	13.9	
@ -40°C (-40°F)	451	450
@ -54°C (-48 °F)	1850	
Viscosity Index		370
Cu Corrosion, 160°F/72hrs.	1B	
Water Content, ppm	50	
4-Ball Wear, mm <sup>2</sup>	0.65	
Evaporation, 160°F/6hrs, %	13.6	
Precipitation Number		0
Gravimetric Filtration mg/100 ml, 0.45µ @ 25°C	0.1	
Filter time, min.	6	
Foam Resistance, 75°F		
foam volume, ml	25	
foam stability	0	
API Gravity	29.3	

**ROYCO 756 AND ROYCO 756A**

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

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**TYPICAL PROPERTIES:**

PROPERTIES	ROYCO 756	ROYCO 756A
Particle Contamination (automatic counter) Size range, mu		
5-15	1200	
16-25	175	
26-50	60	
51-100	5	
100+	0	
Dielectric Strength, KV	49.6	

**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 resealable container can provide cost savings.

**ADVANTAGES**

- Wide operating temperature range
- "Super Clean" fluid to improve equipment life (Royco 756)
- Low temperature fluidity
- Excellent oxidation and corrosion inhibition
- Exceptional antiwear performance
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**COMPATABILITY**

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

**APPROVALS**

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

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