

# ROYCO<sup>®</sup> 782

SYNTHETIC FIRE RESISTANT  
HYDRAULIC FLUID

## Description

**ROYCO 782** is a red – colored “Super Clean”, synthetic hydraulic fluid developed to meet the severe duty demands of today's military and industrial equipment. Modern additive technology is employed for oxidative stability, corrosion inhibition, and antiwear protection. **ROYCO 782** is compatible with petroleum-based fluids and all components used in mineral oil type hydraulic systems.

## Applications

**ROYCO 782** is intended for use in severe duty applications requiring both low and high temperature operation, extended time periods between service intervals, excellent shear stability, water demulsibility, and the safety factor afforded by the use of a synthetic fluid. **ROYCO 782** is recommended for use in aircraft, missile, and ordnance systems using synthetic sealing materials as well as in heavy-duty construction equipment, and industrial robotic hydraulic systems. **ROYCO 782** is suitable for use in applications operating at temperatures from -40°C to 205°C. This product is especially recommended for use where the high flash point provides added safety margins.

## Specifications

**ROYCO 782** meets the requirements of and is qualified to MIL-SPEC: MIL-PRF-83282D APRF

## Typical Properties

PROPERTY	TEST METHOD	ROYCO® 782
Kinematic Viscosity, cSt		
@ 205°C		1.08
@ 100°C	ASTM D445	3.51
@ 40°C		14.2
@ -40°C		2027
Low Temperature Stability, -40°C, 72 hours	FTM 3458	Pass
Flash Point, °C (°F)	ASTM D92	218 (424)
Fire Point, °C (°F)	ASTM D92	251 (483)
Pour Point, °C (°F)	ASTM D97	-61 (-77)
Neutralization No., mq KOH/g	ASTM D664	0.03
Barium Content, ICP-AES, ppm	ASTM D5185	0
Specific Gravity, (15.6°C)	ASTM D1298	0.852
Gravimetric Filtration, mg	ASTM D4898	0.1
Water Content, ppm	ASTM D6304	65
Evaporation, 205°C, 6.5 hours, % loss	FTM 350	10.5
Lubricity, 4-Ball Wear, scar diameter, mm		
1 Kg, 1200 RPM, 1 hour, 75°C		0.14
10 Kg, 1200 RPM, 1 hour, 75°C	ASTM D4172	0.21
40 Kg, 1200 RPM, 1 hour, 75°C		0.44
Solid Particle Contamination, auto counter		
Filtration time, min		
5-15 mu		722
16-25 mu	FTM 3009	95
26-50 mu		27
51-100 mu		4
100+ mu		0
Foam Characteristics, 25°C, ml 5 min /10 min	ASTM D892	4 / 0

## Packaging

ROYCO 782 is available in 1-gallon containers, 5-gallon pails, and 55-gallon drums.

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