

# ANDEROL PRODUCT DATA SHEET

## ROYCO® 782

SYNTHETIC FIRE RESISTANT "SUPER CLEAN"  
HYDRAULIC FLUID

### GENERAL INFORMATION

ROYCO 782 is a red - colored 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.

### TYPICAL PROPERTIES:

PROPERTIES	PRODUCT NAME
Kinematic Viscosity @ 205°C, cSt	1.08
Kinematic Viscosity @ 100°C, cSt	3.50
Kinematic Viscosity @ 40°C, cSt	14.2
Kinematic Viscosity @ -40°C, cSt	2050
Viscosity Index	128
Flash Point, °F	445
Fire Point, °F	490
Pour Point, °F	-78
Total Acid No., mq KOH/g	0.02
Specific Gravity, (15.6°C)	0.851
Gravimetric Filtration, mg	0.1
Trace Sediment, ml	0.001
Water Content, ppm	50
Water Sensitivity, % trans.	98
Evaporation, % loss	
205oC/6.5 hrs.	10.5
Synthetic Rubber Swell, %	
158oF/168 hrs.	21
4-Ball Wear, mm2 scar	
Kg/1200 RPM/1 hr/75°C	0.19
10 Kg/1200 RPM/1 hr/75oC	0.25
40 Kg/1200 RPM/1 hr/75oC	0.53

**ROYCO 782**

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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 (continued):**

PROPERTIES	PRODUCT NAME
Solid Particle Contamination, auto counter, particles/litre	
5-15 mu	1700
16-25 mu	180
26-50 mu	50
51-100 mu	5
100+ mu	0
Foam Characteristics, ml @ 5 min blow/ ml @ 10 min	trace/0
High Temperature Stability (100 hrs/400oF w/ N2 blanket)	
Viscosity Change, % @ 40oC	1.0
Neutralization No. Change	0.04
Insolubles, mg.	0.00

**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 to 204oC. This product is especially recommended for use where the high flash point provides added safety margins.

**ADVANTAGES**

- Excellent shear stability
- Outstanding water demulsibility
- "Superclean" process extends equipment life
- Wide operating temperature range

**APPROVALS**

ROYCO 782 meets the requirements of and is qualified to MILSPEC: MIL-PRF-83282D Am 1.

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