

# ANDEROL PRODUCT DATA SHEET

## ROYCO® 783

MINERAL BASED HYDRAULIC FLUID  
PRESERVATIVE GRADE

### GENERAL INFORMATION

ROYCO 783 is a red - colored petroleum based, low viscosity hydraulic fluid and preservative oil developed to meet the severe duty demands of today's military and industrial equipment. Modern additive technology is employed for high oxidation and shear stability, rust and corrosion inhibition, and antiwear protection. ROYCO 783 is designated as a P-15 corrosion protectant under MIL-STD-2073-1C.

### TYPICAL PROPERTIES:

PROPERTIES	ROYCO 783
Kinematic Viscosity, cSt	
Kinematic Viscosity @ 40°C, cSt	14.2
Kinematic Viscosity @ -40°C, cSt	650
@ -54°C, cSt	3010
Flash Point, oC	100
Pour Point, oC	<-64
Total Acid No., mg KOH/g	0.12
Specific Gravity, (15.6oC)	0.885
Trace Sediment, mls/100cc	0.002
Water Content, %	0.03
Synthetic Rubber Swell, %	
70oC/168 hrs.	26
4-Ball Wear, mm <sup>2</sup> scar	
40 Kg/1200 RPM/1 hr/75oC	0.70
Solid Particle Contamination, auto counter, particles/litre	
5-25 mu	1240
26-50 mu	110
51-100 mu	6
100+ mu	0

**ROYCO 783**

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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	ROYCO 783
Foam Characteristics, ml @ 5 min blow/ ml @ 10 min	
Seq. I. Volume of foam/collapse (sec)	30/35
Seq. II	12/5
Seq. III	25/30
Gravity, API	27.8
Copper Corrosion, ASTM	1B

## APPLICATIONS

ROYCO 783 is intended for use in severe duty applications requiring low temperature operation, excellent shear stability, water demulsibility, and extended time periods between service intervals. ROYCO 783 is recommended for use in aircraft, missile, and ordnance systems using synthetic sealing material as well as heavy-duty construction equipment, and industrial robotic hydraulic systems. ROYCO 783 is suitable for use at operating temperatures from -40 to 275°F. This product is especially recommended for use in artillery recoil mechanisms, hydraulics used in rotary weapons systems, and armoured vehicles.

## ADVANTAGES

- Low temperature fluidity
- Improved water demulsibility
- Excellent shear stability
- Reduces wear and deposit build-up

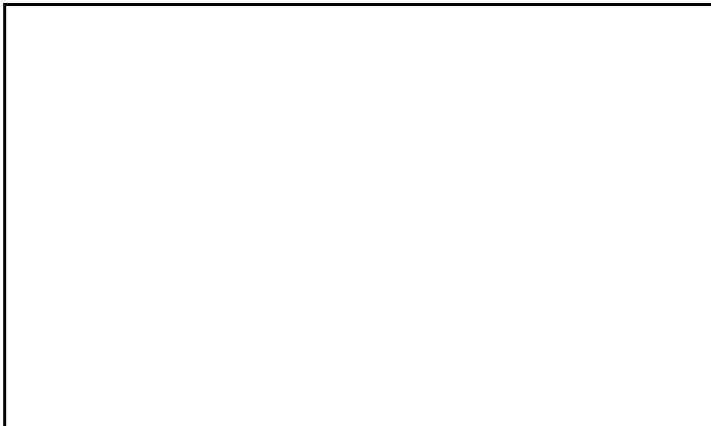
## COMPATABILITY

ROYCO 783 should not be used in hydraulic systems with natural rubber elastomers.

## APPROVALS

ROYCO 783 meets all requirements of and is qualified to the latest revision level of MIL-SPEC: MIL-PRF-6083F.

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ANDEROL Inc.  
PO Box 518, 215 Merry Lane  
East Hanover, New Jersey USA  
Tel: 888-ANDEROL  
Or Tel: (973) 887-7410  
Fax: (973) 884-3825  
E-mail: info@anderol.com