



Royal Lubricants, Inc.

Product Bulletin
MIL-PRF-6083F

ROYCO 783 MINERAL BASED HYDRAULIC FLUID PRESERVATIVE GRADE

DESCRIPTION:

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.

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.

LIMITATIONS:

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

PACKAGING:

ROYCO 783 is available in 1-gallon tins and 55-gallon drums. Other packages may be available on special request.

SPECIFICATIONS:

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

ROYCO 783

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.

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

R783: 11/30/01



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