

ROYCO® 783

PRESERVATIVE MINERAL HYDRAULIC FLUID

ROYCO® 783 is a red - colored “Super Clean”, preservative grade, mineral 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® 783 is compatible with petroleum-based fluids and all components used in mineral oil type hydraulic systems. ROYCO® 783 should not be used in systems with natural rubber elastomers.

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 -54 to 121 °C (-62 to 250°F). This product is especially recommended for use in artillery recoil mechanisms, hydraulics used in rotary weapons systems, and armored vehicles.

FEATURES AND BENEFITS

Features

- **Wide operating temperature range**
- **Low temperature fluidity**
- **Exceptional anti-wear performance**
- **“Super Clean” Fluid to improve equipment life**
- **Excellent oxidation and corrosion inhibition**

SPECIFICATIONS

ROYCO® 783 meets the requirements of and is qualified to MIL-SPEC: MIL-PRF-6083, NATO Code Number C-635.



TYPICAL PROPERTIES

| PROPERTIES | TEST METHOD | ROYCO® 783 |
|--|-------------|------------|
| Kinematic Viscosity, cSt | | |
| @ 40°C | ASTM D445 | 13.8 |
| @ -40°C | | 685 |
| @ -54°C | | 3100 |
| Low Temperature Stability, -40°C, 72 hours | FTM 3458 | Pass |
| Flash Point, °C (°F) | ASTM D92 | 105 (221) |
| Pour Point, °C (°F) | ASTM D92 | -66 (-86) |
| Neutralization No., mq KOH/g | ASTM D664 | 0.09 |
| Barium Content, ICP-AES, ppm | ASTM D5185 | 3400 |
| Specific Gravity, (15.6°C) | ASTM D1298 | 0.8755 |
| Gravimetric Filtration, mg | ASTM D4898 | 0.1 |
| Water Content, ppm | ASTM D6304 | 150 |
| Evaporation Loss | ASTM D972 | 61 |
| Lubricity, 4-Ball Wear, scar diameter, mm | ASTM D4172 | 0.60 |
| Solid Particle Contamination, auto counter | | |
| Filtration time, max, minutes | FTM 3009 | 6 |
| 5-25 mu | FTM 3012 | 4400 |
| 25-50 mu | | 50 |
| 51-100 mu | | 6 |
| 100+ mu | | 0 |
| Cu Corrosion @ 100°C, 72hr | ASTM D130 | 1a |
| Humidity Cabinet, 100 hr | ASTM D1748 | Pass |
| Foam Characteristics, Seq I, Initial / stability | ASTM D892 | 30 / 0 |
| Foam Characteristics, Seq II Initial / stability | ASTM D892 | 20 / 0 |
| Foam Characteristics, Seq III Initial / stability | ASTM D892 | 30 / 0 |

SHELF LIFE
ROYCO® 783

US Military - 2 Years

Commercial - 4 Years

NATO - 4 Years

PACKAGING

ROYCO® 783 is available in 1-gallon containers, 5-gallon pails, and 55-gallon drums.



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North America

+1.833.LANXESS
customer.care@lanxess.com

Europe, Middle East & Africa

+44.161.875.3800
emea.export@lanxess.com

South & Central America

+55.19.3522.5083
atendimento.cliente@lanxess.com

Asia Pacific

+86.21.6109.6666
Orders.apac@lanxess.com

