

ANDEROL PRODUCT DATA SHEET

ROYCO® 770

SYNTHETIC FIRE RESISTANT RUST INHIBITED
HYDRAULIC FLUID

GENERAL INFORMATION

ROYCO 770 is a super clean synthetic hydraulic fluid developed to meet the severe duty demands of today's military and industrial equipment. Rust inhibitors are utilized to provide protection to ferrous components and modern additive technology is employed for oxidative stability, corrosion inhibition, and antiwear protection. ROYCO 770 is designated as a P-15 protectant according to the Mil-STD-2073-1D standard.

TYPICAL PROPERTIES:

PROPERTIES	ROYCO 770
Kinematic Viscosity @ 100°C, cSt	3.71
Kinematic Viscosity@ 40°C, cSt	15.7
Kinematic Viscosity@ -40°C, cSt	2435
Kinematic Viscosity@ -54°C, cSt	14,765
Flash Point, °C	228
Fire Point, °C	250
Autoignition, °C	387
Pour Point, °C	-60
Total Acid No., mg KOH/g	0.10
Specific Gravity, (15.6°C)	0.859
Gravimetric Filtration, mg	0.2
Trace Sediment, ml	0.001
Water Content, % wt	0.02
Water Sensitivity, % trans.	98
Evaporation, % loss 300°F/22 hrs.	2.5
Synthetic Rubber Swell, "L", 158°F/168 hrs.	20
4-Ball Wear, mm ² scar	
10 Kg/1200 RPM/1 hr/75°C	0.25
40 Kg/1200 RPM/1 hr/75°C	0.45
Solid Particle Contamination, auto counter, particles/litre	
5-25 mu	2200
26-50 mu	80
51-100 mu	10
100+ mu	0

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For more information please refer to the relevant Material Safety Data Sheet accompanying each product.

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ROYCO 770

TYPICAL PROPERTIES:

PROPERTIES	ROYCO 770
Foam Characteristics, ml @ 5 min blow/ ml @ 10 min	
Seq I	15/0
Seq II	10/0
Seq III	15/0

APPLICATIONS

ROYCO 770 is intended for use in severe duty applications requiring extremes in environment and/or extended time periods between operation such as tank and howitzer recoil mechanisms and hydraulic systems, snow removal, earth moving and heavy duty construction equipment, and industrial robotic hydraulic systems. ROYCO 770 is especially recommended in applications where rust protection together with a high flash point can afford an extra margin of safety and fire protection.

ADVANTAGES

- Excellent rust and corrosion inhibition
- Outstanding antiwear properties to extend life

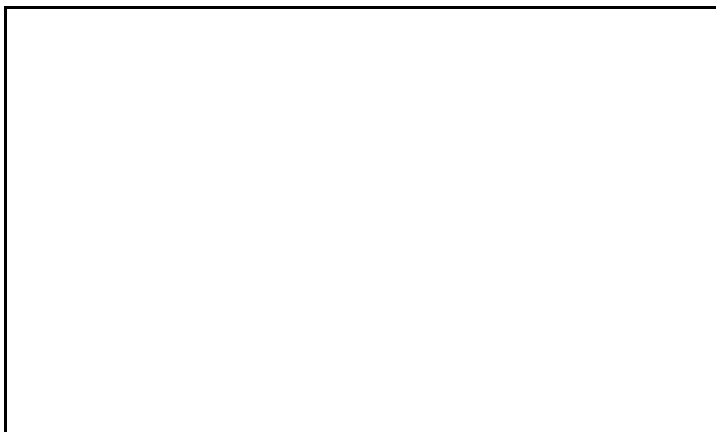
COMPATABILITY

ROYCO 770 should not be used in aviation hydraulic systems without prior evaluation and should not be used in systems in contact with natural rubbers. Intermixing ROYCO 770 with petroleum base stocks will reduce fire resistant properties.

APPROVALS

ROYCO 770 meets all requirements and is qualified against MIL-PRF-46170D Type 1 . ROYCO 770 Type 2 is not a standard offering and requires a special order. A Type 2 fluid is no longer required under MIL-PRF-46170D.

R770: 4/22/05 by GMG/AT



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