

ANDEROL PRODUCT DATA SHEET

ROYCO® 46TF

SEMI-FLUID ALL-WEATHER, LUBRICANT
FOR AUTOMATIC WEAPONS

GENERAL INFORMATION

ROYCO 46TF is a light colored synthetic based semi-fluid grease consisting of 75% by weight ROYCO 46 and 25% polytetrafluoroethylene in a lithium stearate thickener. Additives provide oxidation and corrosion resistance as well as rust protection and extreme pressure anti wear properties.

TYPICAL PROPERTIES:

PROPERTIES	ROYCO 46TF
1) Penetration, 25°C, Plastic Cone	375
2) Evaporation, 8 hrs/300°F, %	1.3
3) Steel on Steel Wear, 1hr/10kg/120°C, mm ²	0.42
4) Oxidation Stability, 6 hrs, 150°C, psi	2.0
5) Rust Prevention	
168 hours	PASS
400 hours	PASS
6) Machine Gun Performance, GAU-2B/A	PASS
7) Storage Stability, 6 months	PASS
8) Load Carrying Capacity, (Falex), psi	3000+
9) Low Temperature Torque, gm cm	
Starting @ -54 °C	236
Running @ -54 °C	118

ROYCO 46TF

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

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APPLICATIONS

ROYCO 46TF is intended for use in automatic weapons systems and accessory equipment operating in severe environments and conditions where thin film, low coefficient of friction, and extreme pressure lubrication are required. ROYCO 46TF is recommended for the lubrication of rotary gun systems, ammunition feed mechanisms, and other weapon systems where very high cyclic rates of fire are encountered. ROYCO 46TF is suitable for use in temperatures from -30°F to +250°F.

ROYCO 46TF is also a suitable lubricant for miniature gearboxes where low temperature starting torques are required and in applications where it is necessary to pump a grease through extremely small orifices. Applications include limited access hinge and flap actuators, enclosed cables, and plastic journal bearings.

ADVANTAGES

- Wide operating temperature range
- Prevents and reduces wear

APPROVALS

ROYCO 46TF meets all requirements and is qualified against the latest revision level of MILSPEC: MIL-L-46150.

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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