

ROYCO® 27

SYNTHETIC MULTI-PURPOSE AIRCRAFT GREASE

ROYCO® 27 is a light tan synthetic ester based grease with a lithium stearate thickener. Additives are provided for oxidation and corrosion resistance as well as rust protection and extreme pressure anti-wear properties.

APPLICATIONS

ROYCO® 27 is as a multi-purpose airframe grease designed for use in highly loaded gears and actuators as well as instruments and high-speed bearings over temperatures from -73 to 121°C. In addition, ROYCO® 27 may be used in applications where MIL-G-3278, MIL-G-7118, MIL-G-7421, MIL-G-15793, and MIL-G-23827 are specified.

FEATURES AND BENEFITS

Features

- **Organic Ester-based with a Lithium Soap Thickener**

Benefits

- **Extended life, wide operating temperature Chemically stable**
- **High resistance to oxidation for extended lubrication periods**



APPROVALS & SPECIFICATIONS

ROYCO® 27 meets all requirements and is qualified as a Type I grease under MIL-PRF-23827C(2). It is identified as NATO Code G-354.

PROPERTIES	TEST METHOD	TYPICAL
Penetration, mm		
Worked		288
Unworked	ASTM D217	294
Worked Stability, 100,000 strokes	FTM 313	299
Evaporation Loss, 100°C, 22 hrs.,% wt	ASTM D2595	1.1
Rust Protection, 125°F, 48 hours	ASTM D1743	1.0
Dropping Point (Aluminum block), °C	ASTM D2265	184
Oil Separation, 100°C, 30 hrs, % wt	ASTM D6184	3.6
Load Carrying Capability, kgf	ASTM D2596	42
Low Temperature Torque, -73°C, Nm		
Starting	ASTM D1478	0.62
Running		0.04
Water Washout Resistance 38°C, 1 hours, %	ASTM D1264	7.9
Copper Corrosion Resistance	ASTM D4048	Pass
Particulate Contamination	FTM 3005	Pass

LIMITATIONS

The synthetic oils used in **ROYCO® 27** may soften natural rubbers, neoprene, some types of electrical insulating compounds, and certain paints.

PACKAGING

ROYCO® 27 is available in 35 lb. Pails, and 400 lb. 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

