

ROYCO[®] 27

SYNTHETIC MULTI-PURPOSE AIRCRAFT GREASE

Description

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 and 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.

PROPERTY	TEST METHOD	ROYCO® 27
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

Packaging

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

Limitations

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

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