

# ROYCO® 22CF

## GENERAL PURPOSE WIDE TEMPERATURE RANGE SYNTHETIC BASED GREASE

**ROYCO® 22CF** is a smooth, brown colored synthetic oil based grease which utilizes an inorganic gel thickener for wide temperature operation. Additives for oxidation and corrosion stability as well as load carrying and rust protection are provided to improve severe duty performance over extreme temperature ranges.

### APPLICATIONS

**ROYCO® 22CF** is formulated to withstand operations at high speeds and a wide temperature range of -54 to 177° C (-65 to 350°F). ROYCO 22CF has superior water resistance and load carrying properties which make it an excellent choice for use in aircraft wheel bearings, instruments, gear boxes, anti-friction bearings, rotor bearings, actuators and general airframe applications. ROYCO 22CF is useful in many industrial applications which require a general-purpose grease.

### FEATURES AND BENEFITS

#### Features

- **High viscosity index synthetic hydrocarbon (PAO) base stock**
- **Extreme-pressure additives**
- **High thermal/oxidative stability**
- **High resistance to water washout**

#### Benefits

- **Very wide operating temperature range outstanding high and low temperature performance**
- **Excellent film protection at high temperatures**
- **Minimum resistance to start-up at extremely low temperatures**
- **Avoids excessive wear, even under shock load**
- **Extended intervals between re-lubrication**
- **Maintains excellent grease performance in adverse weather or other water-exposure related conditions**



## SPECIFICATIONS

**ROYCO® 22CF** meets all requirements and is qualified to MIL-PRF-81322G, NATO Code G-395, U.S. Military Symbol WTR, UK Joint Service Designation XG-293. May be used in place of superseded or cancelled specifications MIL-G-16908, MIL-G-3545 and MIL-G-25760.

PROPERTIES	TEST METHOD	TYPICAL
<b>Penetration, 25°C, 0.1 mm</b>		
<b>Worked</b>	ASTM D217	283
<b>Worked Stability</b>	FTM 313	315
<b>Dropping Point, °F</b>	ASTM D2265	292
<b>4-Ball Wear, 75°C, 40 kg, 1200 rpm, 1 hr, mm</b>	ASTM D2266	0.5
<b>Oil Separation, 177°C (350°F), 30 hrs, %</b>	FTM 321	7.7
<b>Rust Protection, 125°F, 48 hours</b>	ASTM D1743	Pass
<b>Evaporation, 177°C, 22 hrs, Al Block, wt% loss</b>	ASTM D2595	4.7
<b>Load Carrying Capacity, kgf</b>	ASTM D2596	S3
<b>Copper Corrosion at 100°C, 24 hrs, ASTM</b>	ASTM D4048	1B
<b>Water Resistance, 41°C, %</b>		11.0
<b>Low Temperature Torque, -54°C, Nm</b>		
<b>Starting Torque</b>	ASTM D1478	0.37
<b>Running Torque, 60 minutes</b>		0.05
<b>Odor</b>		Pass

## PACKAGING

Available in 400 pound drums, 35 pound pails, and 6.5 pound cans. Other package sizes may be available on special request.



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