

# ROYCO® 22MS HIGH LOAD CAPACITY, WIDE TEMPERATURE RANGE SYNTHETIC BASED GREASE

**ROYCO® 22MS** is a smooth, gray - black colored synthetic oil based grease compounded with micro fine graphite and molybdenum disulfide for enhanced extreme pressure load carrying performance. ROYCO® 22MS is compounded with additives to provide corrosion resistance, oxidation stability, rust protection, and water washout resistance over extreme temperature ranges.

## APPLICATIONS

**ROYCO® 22MS** is recommended for use in heavily-loaded sliding steel surfaces and applications where severe operating conditions may include temperatures as high as 450 °F and as low as -65 °F. low speeds, high loads, extreme pressures on sliding surfaces, splines, ball screws, and anti-friction bearings where the graphite and  $\text{MOS}_2$  may provide an added measure of protection against seizure in the event of inadequate lubrication due to extreme temperatures or mechanical spread out of the lubricant.

## FEATURES AND BENEFITS

### Features

- **High viscosity index synthetic hydrocarbon (PAO) base stock**
- **Extreme-pressure additives, including high quality molybdenum disulfide**
- **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**
- **Protects sliding steel surfaces even under heavily-loaded conditions. Minimizes excessive wear, even under shock loading**
- **Extended intervals between re-lubrication**
- **Maintains excellent grease performance in adverse weather or other water-exposure related conditions**



**SPECIFICATIONS**

**ROYCO® 22MS** meets all requirements of and is qualified under MIL-G-81827A Notice 1.

PROPERTIES	TEST METHOD	TYPICAL
<b>Penetration, 25°C, 0.1 mm</b>		
<b>Unworked</b>		276
<b>Worked</b>	ASTM D217	282
<b>Worked Stability</b>	FTM 313	320
<b>Dropping Point, °F</b>	ASTM D2265	292 (517)
<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	1.4
<b>Boiling Water Immersion</b>	FTM 3463	Pass
<b>Rust Protection, 125°F, 48 hours</b>	ASTM D1743	Pass
<b>Evaporation, 177°C, 22 hrs, Al Block, wt% loss</b>	ASTM D2595	5.7
<b>Load Carrying Capacity, kgf</b>	ASTM D2596	35
<b>Copper Corrosion at 100°C, 24 hrs, ASTM</b>	ASTM D4048	Pass
<b>Water Resistance, 41°C, %</b>		1B
<b>Low Temperature Torque, -54°C, Nm</b>		
<b>Starting Torque</b>	ASTM D1478	0.5
<b>Running Torque, 60 minutes</b>		0.08
<b>Odor</b>		Pass

**LIMITATIONS**

**ROYCO® 22MS** should not be used on surfaces other than steel-on-steel without prior performance evaluation.

**PACKAGING**

**ROYCO® 22MS** is available in 35-pound pails and 400 pound drums. Other package sizes may be available on request.



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