

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 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
Penetration, 25°C, 0.1 mm		
Unworked		276
Worked	ASTM D217	282
Worked Stability	FTM 313	320
Dropping Point, °F	ASTM D2265	292 (517)
4-Ball Wear, 75°C, 40 kg, 1200 rpm, 1 hr, mm	ASTM D2266	0.5
Oil Separation, 177°C (350°F), 30 hrs, %	FTM 321	1.4
Boiling Water Immersion	FTM 3463	Pass
Rust Protection, 125°F, 48 hours	ASTM D1743	Pass
Evaporation, 177°C, 22 hrs, Al Block, wt% loss	ASTM D2595	5.7
Load Carrying Capacity, kgf	ASTM D2596	35
Copper Corrosion at 100°C, 24 hrs, ASTM	ASTM D4048	Pass
Water Resistance, 41°C, %		1B
Low Temperature Torque, -54°C, Nm		
Starting Torque	ASTM D1478	0.5
Running Torque, 60 minutes		0.08
Odor		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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