

# ROYCO<sup>®</sup> 22MS

HIGH LOAD CAPACITY, WIDE TEMPERATURE RANGE  
SYNTHETIC BASED GREASE

## Description

**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<sub>2</sub> 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	Benefits
High viscosity index synthetic hydrocarbon (PAO) base stock	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
Extreme-pressure additives, including high quality molybdenum disulfide	Protects sliding steel surfaces even under heavily-loaded conditions. Minimizes excessive wear, even under shock loading
High thermal/oxidative stability	Extended intervals between re-lubrication
High resistance to water washout	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**.

PROPERTY	METHOD	TYPICAL
Penetration, 25°C, 0.1 mm		
Unworked		276
Worked	ASTM D217	282
Worked Stability	FTM 313	320
Dropping Point, °C	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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