

# ROYCO® 49

GENERAL PURPOSE GREASE

## Description

**ROYCO 49** is a smooth, buttery, gray-black mineral oil based grease using an inorganic gel thickener and micro-fine molybdenum disulfide that is compounded with additives to impart oxidation resistance, water washout, and both fresh and salt-water corrosion protection.

## Applications

**ROYCO 49** is intended for use in applications where severe operating conditions may include temperatures as high as 204 degrees C, low to moderate speeds, high loads, extreme pressure, and a salt water or high pressure steam environment. It is intended for lubrication of critical components of the shipboard aircraft catapult system, automotive, and ground support equipment. Specifically, the grease is intended for use in environments requiring normal high temperatures up to 177 °C (350 °F) or brief exposure to temperatures up to 204 °C (400 °F). It is also intended for use with systems requiring low speed, high load, salt water, and contact with high pressure steam. **ROYCO 49** should not be used in high-speed anti-friction bearings without prior performance evaluation.

## Features and Benefits

Features	Benefits
ROYCO 49 is composed of a high-viscosity mineral oil with a non-soap thickener and molybdenum disulfide	extended use at temperatures up to 177°C (350°F) and for brief periods of use at temperatures up to 204°C (400°F).
Extreme-pressure additives	Avoids excessive wear under shock load and low speed
Fortified with a Corrosion Resistance additive package	Maintains excellent grease performance in adverse weather or other water-exposure, steam and sea-water related conditions

## Approvals and Specifications

**ROYCO 49** meets all requirements and is qualified against the latest revision level of MIL-SPEC: **MIL-DTL-23549D Notice 1**, which supersedes MIL-G-23549C.

## Typical Properties

PROPERTY	TEST METHOD	ROYCO 49
Penetration, worked	ASTM D217	296
Dropping Point, °C (F)	ASTM D2265	310 (590)
Oil Separation, %, 177°C (350°F), 30 hrs	FTM 321	0.88
Evaporation, %, 177°C (350°F), 22 hrs	ASTM D2595	2.34
Load Carrying Capacity, kgf	ASTM D2596	59
Salt Spray Corrosion, galvanic corrosion	FTM 5322	PASS
Boiling Water Immersion, 10 minutes	FTM 3463	PASS
Copper Corrosion, 149°C (300°F), 24 hrs, ASTM color change	FTM 5309	1B

## Packaging

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

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