

# ROYCO® 64

SYNTHETIC GREASE FOR HIGH AND LOW TEMPERATURE  
 MOLYBDENUM DISULFIDE, LITHIUM BASE

## Description

**ROYCO 64** is a lithium thickened grease formulated with molybdenum disulfide and a thermally stable ester based synthetic oil. Modern additives are utilized to provide high load carrying, rust and oxidation protection, EP performance, and shear stability. Micro-fine particles of “Moly” adhere and penetrate metal surfaces thereby providing lubrication and anti-seize protection even when the oil component is removed or there is a possibility of inadequate lubrication due to mechanical spread out of the lubricant.

## Applications

**ROYCO 64** is designed for use on sliding steel on steel surfaces and low to moderate speed antifriction bearings carrying high unit loads. **ROYCO 64** is especially recommended for use in extreme low temperature (-100°F) and high temperatures up to 275°F

## Features and Benefits

Features	Benefits
Organic Ester-based with a Lithium Soap Thickener	Extended life, wide operating temperature Chemically stable High resistance to oxidation for extended lubrication periods

## Approvals and Specifications

**ROYCO 64** meets all requirements of and is qualified under MIL-G-21164D Notice 1, NATO Code G-353, Military Symbol GMD.

## Typical Properties

PROPERTY	TEST METHOD	ROYCO® 64
Kinematic Viscosity, cSt (Base oil)	ASTM D445	
@ 100°C		2.7
@ 40°C		9.1
Flash Point, °C (°F)	ASTM D92	213 (415)
Molybdenum Disulfide, wt. %	Report	5
Penetration, mm	ASTM D1403	
Unworked		274
Worked		277
Worked Stability, 100,000 strokes	FTM 313	285
Dropping Point, °C (°F)	ASTM D2265	181 (358)
Copper Corrosion, 100°C, 24 hours	ASTM D4048	1B
Evaporation, 100°C, 22 hours, % wt.	ASTM D2595	1.03
Oil Separation, 30 hrs, 100°C, %	FTM 321	3.2
Low Temperature Torque, -73°C (-100°F), Nm	ASTM D1478	
Starting		0.62
Running		0.06
Load Carrying Ability	ASTM D2596	55

## Limitations

**ROYCO 64** should not be used in high-speed antifriction bearings without prior evaluation. The persistence of the molybdenum disulfide and the high penetrating properties of the synthetic base oil make this material difficult to remove from surfaces. In addition, the synthetic oil in **ROYCO 64** may soften natural rubber and neoprene as well as some paints.

## Packaging

**ROYCO 64** is available in 35 lb. pails, and 400 lb. drums. Other packages may be available on request.

The information contained herein relates to a specific Chemtura product and its use, and is based on information available as of the date hereof. Additional information relating to the product can be obtained from the pertinent Material Safety Data Sheets. Nothing in this Technical Data Sheet constitutes a term or condition of sale nor shall it take precedence over, supersede or modify or be construed to take precedence over, supersede or modify, any of Chemtura's standard or other terms and conditions of sale under which the product is sold by Chemtura. NOTHING IN THIS TECHNICAL DATA SHEET CONSTITUTES, NOR SHALL IT BE CONSTRUED TO CONSTITUTE, A REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE PRODUCT'S CHARACTERISTICS, USE, QUALITY, SAFETY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein shall constitute permission or recommendation to practice any intellectual property without the permission of the owner. This product is sold only under terms and conditions agreed in writing by Chemtura and the respective buyer and the terms and conditions of such agreements shall in all cases prevail. ANDEROL, ROYCO, AOSyn and PQ and their corresponding logos are trademarks of Chemtura Corporation or one of its subsidiaries. Copyright (c) 2010 Chemtura Corporation. All rights reserved.



Anderol Specialty Lubricants  
a division of Chemtura Corporation  
215 Merry Lane  
East Hanover, New Jersey 07936  
Technical Service +1.973.887.7410  
Customer Service +1.203.573.4595  
Fax +1.203.573.2324  
info-anderol@chemtura.com  
[www.anderol.com](http://www.anderol.com)