

### ROYCO® 64 Aviation Grease

#### Type

Molybdenum Disulfide, Lithium Base Synthetic Grease for High and Low Temperature Applications

#### 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.

#### Application

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

- 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 and is qualified against the latest revision level of MIL-SPEC: MIL-G-21164D Notice 1, which supersedes MIL-G-21164C. NATO Code Number: G-353

#### 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.



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#### Technical data\*

PROPERTIES	TEST METHOD	ROYCO® 64
Kinematic Viscosity, cSt (Base oil)		
@ 100 °C	ASTM D445	2.7
@ 40°C	ASTM D445	9.1
Flash Point, °C (°F) (Base oil)	ASTM D92	213 (415)
Molybdenum Disulfide, wt. %	Report	5
Penetration, mm		
Unworked	ASTM D1403	274
Worked	ASTM D1403	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.	FTM 5309	1.03
Oil Separation, 30 hrs, 100°C, %	FTM 321	3.2
Low Temperature Torque, -73°C (-100°F), Nm		
Starting	ASTM D1478	0.62
Running	ASTM D1478	0.06
Load Carrying Ability	ASTM D2596	55

\*The analytical data are guide values.

#### Packaging

ROYCO® 64 is available in 35lb. pails and 400 lb. drums. Other packaging may be available on request.

#### Handling

Consult product safety data sheet (SDS) for additional handling information on ROYCO® 64



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