

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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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