

ANDEROL PRODUCT DATA SHEET

ROYCO® 634

CLEANER, LUBRICANT, AND PRESERVATIVE
FOR WEAPONS AND WEAPONS SYSTEMS

GENERAL INFORMATION

ROYCO 634 is a highly penetrating, mobile liquid lubricant that combines three essential functions in a single product; cleaning, lubrication, and preservation of handheld weapons, and weapons systems of both large and small calibre. ROYCO 634 may also be considered for many industrial applications as well.

TYPICAL PROPERTIES:

PROPERTIES	ROYCO 634
Viscosity @ 40°C (104°F), cSt	9.34
Viscosity @ -53.8°C (-65°F), cSt	3450
Pour Point, (oF)	-82
Flash Point, COC, °C (°F)	100 (212)
4-Ball Wear, mm2 (40 kg/ 1200 rpm/ 75 °C/ 1 hr)	0.40
Specific Gravity, 60°F	0.87
Falex Load Carrying Capacity 750 lb. Jaw Load	PASS
Firing Residue Removal, % (WC-844 Propellant)	90
Salt Spray Corrosion Resistance	PASS
Humidity Cabinet Rust Resistance (120oF, 100% relative humidity, 900 hrs.)	PASS
Water Displacement and Stability	PASS
Metal Corrosion Test, wt change mg/cm2 130oF, 168 hrs	
Zinc	0.00
Aluminum	+0.02
Brass	+0.07
Steel	+0.03
Copper	+0.01
Magnesium	
Cadmium	+0.02
Low Temperature Residue and Fluidity	PASS
Reactivity with Chemical Agent Detector (M8, M9)	PASS

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**For more information please refer to
the relevant Material Safety Data
Sheet accompanying each product.**

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APPLICATIONS

ROYCO 634 is formulated to meet the complete requirements of cleaning, lubricating, and preserving both small and large calibre weapons in virtually all climate conditions from -65°F to +150°F. In addition, ROYCO 634 contains no ozone depleting compounds and meets California Clean Air Act VOC requirements.

ROYCO 634 is not limited only to ordnance use; in fact, it has been proven effective in a wide variety of applications including automotive, aviation, marine, and general plant maintenance of industrial equipment.

ROYCO 634 provides additives that in addition to their ability to penetrate between metal surfaces, aid in the effective removal of built up dirt, corrosion particles and firing residues that can be abrasive to both recoil and gas operated mechanisms.

After cleaning, a thin-film layer of preservative forms immediately on the surface that not only displaces water but provides a corrosion resistant barrier against rust and dirt.

ROYCO 634 incorporates advanced technology additives to enhance film strength and antiwear properties - thereby reducing friction between moving parts and minimizing wear and the build-up of wear-related debris.

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ADVANTAGES

- Meets California Clean Air Act VOC requirements
- Penetrates metal surfaces
- Forms a thin protective layer preventing future corrosion
- Enhanced film strength to minimize wear
- Aids in the removal of dirt and corrosion particles

APPROVALS

ROYCO 634 is qualified to and meets all requirements of MIL-SPEC: MIL-PRF- 63460D Am. 6.

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