

### ROYCO® 634E

Aviation Cleaner, Lubricant and Preservative

#### Description

**Royco® 634E** is considered a “next generation” CLP-type lubricant. It provides a high degree of penetration, guards against dust/particulate infiltration and provides outstanding rust inhibition. It minimizes weapon jamming in adverse conditions of handheld weapons as well as weapons systems of both large and small caliber. **Royco® 634E** may also be considered for many industrial metal protection applications.

#### Application

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

**Royco® 634E** is also effective in a wide variety of applications including automotive, aviation, marine and general plant maintenance of industrial equipment.

#### Features and Benefits

**Excellent penetration and wetting to ensure complete protection of metal surfaces.**

**Excellent rust preventive and water displacement properties.**

**Effective removal of built up dirt, corrosion particles and firing residues from recoil and gas operated mechanisms.**

**Reduces friction between moving parts to minimize wear and build-up of wear related debris.**

#### Approvals and Specifications

**Royco® 634E** is qualified to and meets all requirements of MIL-PRF-63460F Type A.



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**Technical data\***

PROPERTIES	TEST METHOD	ROYCO® 634E
Kinematic Viscosity @ 40 °C, cSt (with solvent)	ASTM D 445	14.6
Kinematic Viscosity @ -40 °C, cSt (solvent evaporated)	ASTM D 445	1742
Gravity, API, 15.6 °C	ASTM D 4052	29.8
Pour Point, °C	ASTM D 97	< -63
Acid Number, mg KOH/g	ASTM D 664	11.6
Flash Point, °C	ASTM D 92	126
Four Ball Wear@75 °C, 40 Kg, 1200 rpm	ASTM D 4172	0.30
Falex Wear Life, Thin Film	ASTM D 2625	750
Salt Spray Corrosion Resistance, 100 hr	ASTM B117	Pass
Water Displacement and Stability	FTM 3007	Pass
M-8 and M-9 Reactivity	MIL-PRF-63460	Pass
Aluminum Corrosion @ 130 °F, 168 hr, mg/cm <sup>2</sup>	MIL-PRF-63460	0.01
Brass Corrosion @ 130 °F, 168 hr, mg/cm <sup>2</sup>	MIL-PRF-63460	0.03
Cadmium Corrosion @ 130 °F, 168 hr, mg/cm <sup>2</sup>	MIL-PRF-63460	0.02
Copper Corrosion @ 130 °F, 168 hr, mg/cm <sup>2</sup>	MIL-PRF-63460	0.01
Iron Corrosion @ 130 °F, 168 hr, mg/cm <sup>2</sup>	MIL-PRF-63460	0.03
Magnesium Corrosion @ 130 °F, 168 hr, mg/cm <sup>2</sup>	MIL-PRF-63460	0.00
Zinc Corrosion @ 130 °F, 168 hr, mg/cm <sup>2</sup>	MIL-PRF-63460	0.00

\*The analytical data are guide values.

**Packaging**

ROYCO® 634E is available in 55 gallon drums. Other packaging may be available on request.



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#### Handling

Consult product safety data sheet (SDS) for additional handling information on **ROYCO® 634E**

® = registered trade mark

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