



CLP Oil

Airable has developed a high-performance soy-based CLP oil designed to clean, lubricate, and protect firearms and metal components that are subject to harsh conditions. The formulation removes carbon residues, displaces water, and delivers reliable corrosion protection across a broad range of temperatures. This oil has all-around good performance while providing a high bio-based content that would meet the USDA bio-preferred standard.

THE TECHNOLOGY

This oil is formulated with a soy-derived base oil that provides superior cold weather performance compared to conventional vegetable oils, other high-performance oils, and a specialty additive package that enhances anti-wear performance and corrosion resistance. The formulation has shown non-tarnishing performance on metals—such as aluminum, cadmium, zinc, brass, copper, steel and magnesium—that are commonly found in military, industrial, and outdoor applications.

PHYSICAL PROPERTIES

Property	Value
Color	Slight yellow
Appearance	Clear liquid
Biobased Carbon Content	~34%
Flash Point	>100°C
Pour Point	-60°C
Viscosity @ 40°C	16.9cSt
Graphite-Free	Yes
Ozone Depleting Substance (ODS)-Free	Yes

APPLICATIONS

- Firearm cleaning and maintenance
- General lubrication
- Loosening stuck parts
- Preventing corrosion

BENEFITS

- Exceptional low-temperature performance
- Excellent lubrication and wear prevention
- Effective water displacement
- Good metal compatibility
- Meets the USDA BioPreferred® threshold

PERFORMANCE DATA

Wear Scar Diameter, ASTM D4172	0.54 mm
Water Displacement, FTM-3007	Pass
Corrosion Production, Described in MIL-PRF-63460F	Pass
Chemical Agent Detection Paper Interference	Pass