

UNITED OIL COMPANY

Quality Industrial Lubricants Since 1906

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United CO-100 MIL-PRF-3150

United Coating Oil CO - 100 is a medium viscosity long term rust preventative coating oil designed to be applied to steel strip after pickling, temper rolling, galvanizing, and after processing before storage. **CO- 100** is compatible with all temper mill coolants and one-phase oil-based coating oils, and may be applied by spray, felt wiper, or electrostatic oiler. **CO - 100** does not contain silicones, lanolin, hardeners, or waxes. It is relatively easily cleaned from the steel surface prior to processing of the strip.

CO - 100 is balanced between barrier type corrosion protection and additive based corrosion protection. Barrier protection involves simply preventing moisture (water) from reaching the steel surface of the coil. This is provided in **CO - 100** by the carrier or base oil and the water displacing additive.

Once barrier protection is established, additional protection is also needed for damaged areas of the barrier film e.g. scratches, nicks, uneven application and from stain and oxidation. As such, **CO - 100** contains non-staining, acid neutralizing film formers, polar additives, water displacers, and anti-oxidants.

NOTE: Military standard or Military-SPEC lubricants are products that meet or exceed the US defense standard, a measure of quality set to standardize the expectations of all products supplied to the US Military. All MIL-SPEC (Military-SPEC or Super Clean) lubricants are subject to stringent tests in order to be suitable for military consumption, preventing the delivery and use of poor quality lubricants that could lead to potentially disastrous situations.

Typical Physical Properties

Appearance : Amber liquid

Viscosity @ 100°F : 460-575 SSU

Flash Point, COC : 302° F

Specific Gravity @ 60°F : 0.867

Typical Performance Properties

ASTM D1748 (Humidity Cabinet) : 60 + days

MIL-C-22235

Type A-Ready Mix : Passes

Section 3.4 (Stack Test) : No Stain

Electrostatic Oil Application Rating : good spray with cusping (1-2mm) suitable for all application methods

Cleanability: U.S. Steel SOP

Loose stack : 25 sec. Better than standard RP

Tight stack : 30 sec. Similar to standard RP