

MARTOL 513 S



METALWORKING



TOTAL

Chlorinated, Drawing and Forming Lubricant for Ferrous and Non-Ferrous Metals.

APPLICATIONS

- **MARTOL 513 S** is a premium quality, light viscosity, petroleum based lubricant especially formulated for stamping and drawing operations on high carbon steel and stainless steel. It provides a chlorinated chemical boundary agent, which acts to provide a resilient film between the die and workpiece. This product contains vegetable oil for good wetting ability.
- **MARTOL 513 S** will not stain copper or aluminum, making it a versatile product to be used on a variety of metals. This product contains a special additive to neutralize excess chlorine and prevent corrosion.
- **MARTOL 513 S** should be used as received for stamping, drawing, and forming applications. It may be applied to blanks or strip by spray, brush, or wiper pads. Parts cleaning is accomplished with vapor degreasing, petroleum or chlorinated solvent dip, or with a hot alkaline wash.

ADVANTAGES

- Very good extreme pressure performance due to the addition of chlorine.
- Increases die life.
- Excellent lubricity properties--Increases the die life on a large scale of parameters maintaining an additive layer on the die and workpiece surfaces.
- Handles a broad spectrum of ferrous and non-ferrous metals.
- Excellent metal wetting ability.
- Anti-weld agent.
- Provides good cooling.

TYPICAL CHARACTERISTICS	MARTOL 513 S
Appearance	Clear Light Amber Liquid
Color, ASTM D-1500	1.0
Viscosity at 40°C, cSt	17.6
Density @ 60 °F, lbs./gal.	8.50
Specific Gravity @ 60/60 °F	1.019
Flash Point, COC, °F	275
Copper Strip Corrosion	1A - 1B
Lubricity Content, %wt.	10.0
Sulfur, %wt.	None
Chlorine, %wt.	> 25.0

TOTAL Lubricants USA, Inc.

Linden, NJ 07036
5 North Stiles Street
908.862.9300/800.526.4127

Rockingham, NC 28379
709 Airport Road
800.323.3198 / 800.526.4127

Knoxville, TN 37914
3315 Riverside Drive
800.323.3198 / 800.526.4127