

# MARTOL 91 S METAL DRAWING AND FORMING LUBRICANT

(Formerly Elfdraw N CF 91)

## DESCRIPTION

MARTOL 91 S represents a new generation of non-chlorinated extreme pressure fortified drawing lubricants. MARTOL 91 S combines the latest available in additive technology along with anti-weld and lubricity agents to form a product capable of performing extremely difficult drawing operations. MARTOL 91 S works to provide a chemical barrier between the workpiece and the die. This barrier prevents abrasion of the workpiece and extends the life of the die.

## APPLICATION

MARTOL 91 S is generally applied by flooding the workpiece. This product, however, may be applied to strips and blanks by dipping, rolling, and brushing. Workpieces are best cleaned with solvent degreasers or conventional alkaline cleaners.

## TYPICAL SPECIFICATIONS

Appearance	Dark, Viscous Liquid
Odor	Mild Fragrance Type
Color, ASTM D-1500	8.0+
Viscosity @ 100 C, cSt	11.5-14.0
Flash Point, COC, F	380
Specific Gravity @ 60/60 F	0.915
Density @ 60 F, lbs/gal	7.62
Chlorine, % wt.	Nil
Sulfur, % wt.	5.25
Copper Corrosion, ASTM D-130	1a

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## TOTAL Lubricants USA, Inc.

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