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## Astro-Draw A

### OVERVIEW

ASTRO-DRAW A is a heavy duty water soluble drawing oil. It has been formulated for use on heavy drawing and blanking operations and has excellent adherence and anti wipe properties. It can be used on both ferrous and non-ferrous metals without staining or rusting. This product is a complex blend of extreme pressure additives, fatty esters and rust inhibitors.

### FEATURES & BENEFITS

- Easily Removed With Mild Alkaline Cleaner
- Mild Pleasant Odor
- Excellent Corrosion Inhibition
- Long Lasting
- Stable in Hard or Soft Water
- Operator Friendly
- For Ferrous and Non-Ferrous Metals
- Superior Lubricity
- Residual Coating May Be Welded Through
- Non-Gumming

### APPLICATIONS

ASTRO-DRAW A is designed for use in all stamping and drawing applications. ASTRO DRAW A may be applied by brushing, dipping, spraying, rolling or other convenient method.

### RECOMMENDED CONCENTRATION

Application	Concentration	Ratio	Refractometer
Normal Applications	10% - 20%	1:10 – 1:5	4.8 – 9.6
Extremely Difficult Draws	May Be Used Neat or Cut With Mineral Oil		

### MIXING

Concentration	4%	5%	6%	7%	8%	9%	10%
Ratio		1:20		1:14			1:10
Refractometer		2.4	2.9	3.4	3.8	4.3	4.8

### TYPICAL PROPERTIES

Appearance-Concentrate	Hazy dark brown liquid
Appearance - Dilution	Opaque White
Residual Film	Soft, fluid
pH @ 20:1	8.9 ± 0.2
Specific Gravity @ 60 °F	1.06 ± 0.03
Lbs/Gallon	8.9 ± 0.1
Total Phosphorous, wt %	None
Flash Point, COC °F	355

Material Safety Data Sheets are available for all products.  
 All reasonable care has been taken to ensure  
 that the above information is accurate as of the date of printing.