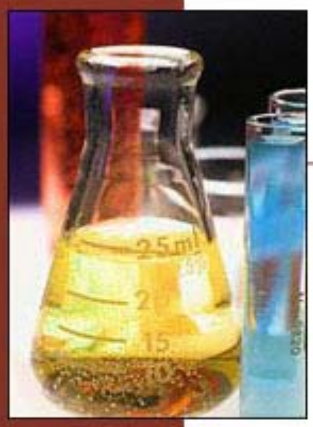


Dura Draw 747

DURA DRAW 747 was developed to provide a heavy duty drawing lubricant for alloy steel wire, nickel, alloy wire, nickel coated copper and aluminum alloy wire with enhanced chemical stability and biostability. It is formulated to provide lubricity, and prevent galling during breakdown of "mushy" alloys.

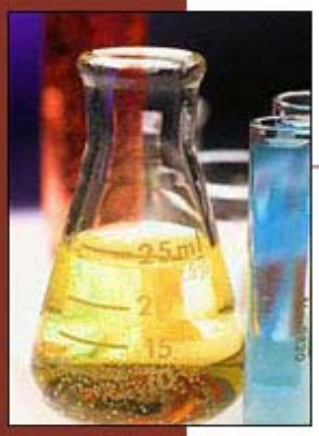
It is biologically stable, and does not contain any phenols, or nitrites. A special emulsifier system with high molecular weight polymers and esters provide lubricity, film strength and stability against bacteria and oxidation.

DURA DRAW 747 does not contain fatty acid soaps as emulsifiers or performance additives. This is important, as the soaps serve as an excellent microbial food nutrient, and are rapidly consumed when they couple with Fe^{2+} and Fe^{3+}, Ca^{2+}, $A1^{3+}$, Cu^{+}, Cu^{2+}, and Zn^{2+}. These metals readily react with soaps, causing a depletion of the emulsifier leading to poor emulsion stability. These metallic soap complexes also develop unsightly deposits that can harbor bacteria and reduce the effectiveness of biocides. The soap deposits provide a growth substrate that effectively shields a large population of the bacteria from exposure to the lethal concentrations of biocide.

DURA DRAW 747 is formulated with polymer chemistry that provides excellent lubricity and reduced roll wear.
DURA DRAW 747 is non-staining to a variety of metals and is very effective for drawing high alloy materials.

ADVANTAGES:

- Can be used on a variety of drawing operations encompassing a wide range of materials.
- Uniformly coats the capstan rolls, wire, and die, before wire entrance at die throat.
- Long emulsion life – highly resistant to bacterial attack, biostable.
- Environmentally safe – free from nitrites, phenols, chromates and diethanolamine.
- Leaves a soft oily film for protection of machinery.
- Mild on skin and low odor – good operator acceptance.
- Provides excellent corrosion protection.
- Stable in hard water.



Baum's Castorine Co., Inc.
Manufacturing Chemists Since 1879

PHYSICAL PROPERTIES:

Appearance:	dark green liquid
Viscosity @ 100 ^{o} F., Saybolt Universal	450 – 490 seconds
Flash Point, Cleveland Open Cup	305 ^{o} F.
pH 5%:	9.50
Foam, cylinder test:	39 seconds
Rust Test @ 5%: Herbert Test	PASS – NO RUST
Residue:	Liquid
Refractometer Factor:	1.0

PRODUCT SAFETY:

For complete safety and health information, consult the current Material Safety Data Sheet (MSDS).

For more information, please call 1-800-825-8154