



# Tower Oil & Technology Co.

## TOWERDRAW TC-78 (TOWERDRAW TC-77)

**TOWERDRAW TC-78** is a heavy duty water soluble paste developed as a lubricant for drawn over mandrel tube and pipe bending. It forms a strong barrier film with a high degree of lubricity without the use of chemical extreme pressure agents (S, C, or P). **TOWERDRAW TC-78** uses a solid film lubricant, PTFE, to reduce the coefficient of friction and improve lubricant film strength. It is safe for use on all metals and can be used on difficult 1-D bends and on large diameter tubing.

Also available, without the PTFE additive, as **TOWERDRAW TC-77**. This formula meets the US Navy low halogen specification.

### USAGE

**TOWERDRAW TC-78** is typically used neat for draw bending and end forming operations. It can be hand applied by brush or swab, or pumped through mandrel rod lubricators that are capable of pumping light grease. **TOWERDRAW TC-78** will form a stable emulsion when the water is added in the proper order of addition. Slowly *add water to* the **TOWERDRAW TC-78** with agitation until the desired consistency is reached.

**TOWERDRAW TC-78** can be removed by aqueous wash using a high quality alkaline cleaner, such as **TOWERKLENE 42-A**, operating at 120 - 140° F.

Normally **TOWERDRAW TC-78** and **TC-77** are best if used within six months of the manufacture date. Keep the product containers sealed when not in use.

### PHYSICAL CHARACTERISTICS

Appearance	Cream Colored Non-pourable Paste
Density	0.94 g/ml 7.8 lbs/gal

### BENEFITS

- Contains Chlorine-Free Chemistry
- Contains No Hazardous Ingredients
- Welds Through Without Cleaning
- Improves Tool Life
- Does Not Harden Like Pigmented Lubricants
- Provides Excellent Corrosion Protection
- Is Operator Friendly
- Cleans Readily and is Easy to Work With

### TECHNICAL SUPPORT

**TOWER** wants to assist you in evaluation and selection of suitable products. We urge you to take advantage of this service. This information sheet and **TOWER's** assistance, however, are not a substitute for your own testing and evaluation.

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