

## PRODUCT DATA



www.RichardsApex.com

Phone: 215-487-1100

## TCS-98 COMPOUND

**RichardsApex TCS-98 CPD** is a synthetic lubricant formulated for the wet drawing of metallic coated wire. The synthetic emulsion formed exhibits the stability and cleanliness required for drawing chemically coated wire with a residual dry lubricant film. As reactive metals form metallic complexes in the lubricating emulsion, an improvement in anti-wear properties will be observed.

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### BENEFITS:

- **Produces an exceptionally clean finish required for rubber adhesion**
- **Formulated to control metals pickup**
- **Easily filterable**
- **Stable in both the neat and emulsion formed**
- **Excellent lubricity and cleanliness**
- **Residual lubricant film assists in subsequent stranding operations**

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### RECOMMENDED USES:

**RichardsApex TCS-98** contains non-corrosive extreme pressure additives to provide excellent die protection in the drawing of both high carbon chemically coated steel wire and tire cord wire.

Depending on the severity of the drawing process, a concentration of 10% to 15% by volume in water is required.

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### TYPICAL SPECIFICATIONS:

Specific Gravity - 0.96 kg/l (8.6 lbs/gallon)

Active Lubricant Content - 39%

pH of a 3% solution - 8.6



**Refractive Index Chart**

**TCS-98**

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| <b><u>% by Volume</u></b> | <b><u>Refractive Index</u></b> |
|---------------------------|--------------------------------|
| <b>2</b>                  | <b>0.8</b>                     |
| <b>4</b>                  | <b>1.5</b>                     |
| <b>6</b>                  | <b>2.3</b>                     |
| <b>8</b>                  | <b>3.1</b>                     |
| <b>10</b>                 | <b>4.0</b>                     |
| <b>12</b>                 | <b>4.8</b>                     |
| <b>14</b>                 | <b>5.6</b>                     |
| <b>16</b>                 | <b>6.4</b>                     |
| <b>18</b>                 | <b>7.2</b>                     |
| <b>20</b>                 | <b>8.0</b>                     |

Refractive index accuracy can be influenced by water quality, contaminants, age of solution and temperature. In order to ensure proper concentration readings, the solution must be checked at ambient temperature. This is a fast test method and a more accurate reading may be achieved by a Babcock split.

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