

# DATA SHEET

## DEVECO 410

**Deveco 410** is a single-dip trivalent liquid chromate product that provides a clear blue bright chromate conversion coating on electroplated zinc and delivers up to **48 hrs** protection to white corrosion in salt fog testing when operated per recommended conditions.

**Deveco 410** can be used on barrel and rack zinc plating lines. It is equally effective on all electroplated zincs ranging from alkaline non-cyanide to acid chloride processes in both barrel or rack operations. **Deveco 410** possesses high tolerance to impurities and yellowing. Fewer problems are encountered with zinc stripping from low current densities due to its low zinc removal properties.

**Deveco 410** is economical due to its effectiveness at low concentrations and long life. Additions can easily be determined by visual inspection of the chromated parts.

### MAKE-UP AND CONTROL:

Blue-bright, Mid-corrosion	Recommended	Range
<b>Deveco 410</b>	2% by volume	1 to 3 % by volume
<b>Temperature</b>	100 °F	70 to 110 °F
<b>Time</b>	45 seconds	30 to 60 seconds
<b>PH</b>	1.8	1.5 to 2.5

### ANALYSIS:

1. Add a 100 mls sample of the chromating solution into a flask.
2. Add 1 to 2 mls of phenolphthalein.
3. Titrate with 1.0 N Sodium Hydroxide solution to a pink end-point.

NOTE: The sample will become cloudy before the endpoint is reached.

**Calculation: Mls 1.0 N Sodium Hydroxide x 0.27 = % Deveco 410.**

### CAUTION:

This product contains chromates and is acid in nature. Contact of salts or solution with skin or eyes should be avoided. In case of contact, flush contaminated area with a large amount of water. When handling this product, protective clothing, i.e. rubber apron, gloves, boots, and goggles should be worn.

### EQUIPMENT:

**Deveco 410** solutions require polyethylene, stainless steel, or koroseal lined tanks.

**Read Material Safety Data Sheet before using this product.**

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