

**We're re-coloring the world
of Trivalent Chromates.**

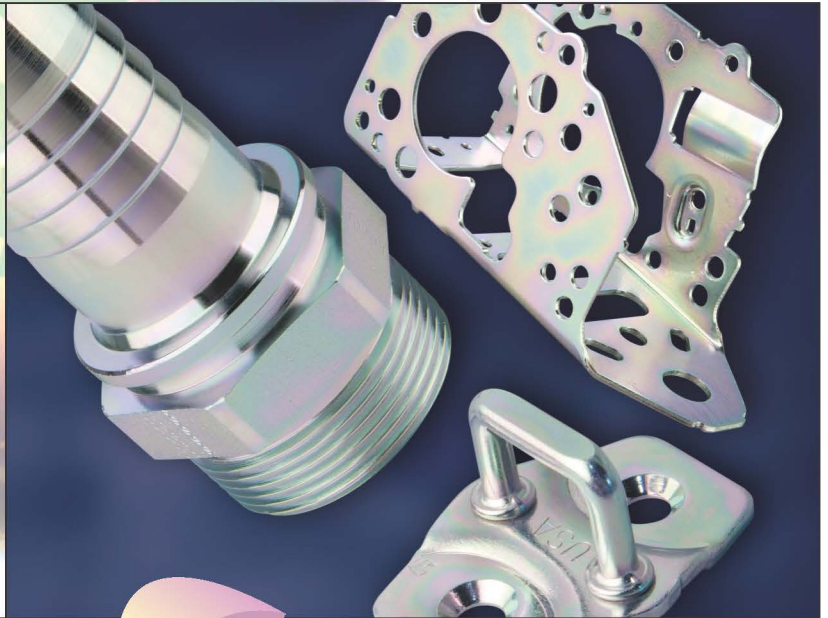
SpectraMATE™

YOUR ZINC PARTS

FOR 250 HOURS OF

CORROSION PROTECTION

WITHOUT A TOPCOAT



SPECTRA MATE™

Re-colouring the world of trivalent chromates

SpectraMATE™ is the new generation trivalent (hexchrome-free) thick-film chromate. SpectraMATE's revolutionary, patent-pending technology exceeds automotive standards with 250 hours of consistent corrosion-resistance – at ambient temperatures, lower concentrations, and a wide operating window.

SpectraMATE™ your zinc parts for the most consistent high-corrosion trivalent chromate protection available.

Start re-colouring your world of trivalent chromates today.

No more inconsistency.

No more costly, high concentrations.

No more narrow operating windows.

No more heat.

No more chelators.

No more topcoats.

No more blue.



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Metal Finishing
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In association with

COLUMBIA®



CHEMICAL

Simplifying Surface Finishing®

www.columbiachemical.com

FEATURES AND BENEFITS

SpectraMATE™ Series...

Thick-Film Trivalent Conversion Coating For Zinc

Brought to India in association with Columbia Chemical Corpn., - U.S.A., World Leaders in Simplifying Surface Finishing

- High performance, thick-film trivalent conversion coating for electroplated zinc. (300 – 400 nanometer)
- Produces a slightly iridescent, multicolour finish (hues of yellow, green, purple and pink) which is unique among high corrosion trivalent corrosion trivalent chromate processes.
- Exhibits “true self-healing” properties similar to that of hexavalent conversion coatings.
- Provides a finish that consistently exceeds 250 hours of neutral salt spray to white corrosion products without top coats, when applied properly.
- Easy to Use, One part system that does not require multiple starter, adjuster, and replenisher type additives.
- Operates at a wider, and more user-friendly pH range (pH = 1.4 ~ 3.4) than conventional trivalent chromates.
- Operates at low-to-ambient temperatures, thus eliminating the added cost and inconvenience of heating as with conventional thick-film trivalent technologies.
- Is chelator-free, making it waste treatment friendly.
- Provides over 400 - 500 hours to white corrosion when top coated with Zinc-Chro-Shield or Zinc-Chro-Pellent.
- Ideal for both rack and barrel installations utilizing cyanide, alkaline cyanide-free or acid-chloride zinc plating electrolytes.
- The Product has higher tolerance to Iron & Zinc metal contamination, gives excellent stability in color and gives extended bath life.

OPERATING INSTRUCTIONS

<i>CONSOL SpectraMATE™ 25</i>	20 ~ 100 ml/l (Opt. 100 ml/l)
Temperature	10 ~ 42° C (Opt. 20 ~ 30° C)
pH	1.4 ~ 3.4 (Opt. 2.0 ~ 2.5)
Dip Time	45 ~ 120 Seconds (Dip time can vary depending upon the concentration and age of the Chromate)

Typical Cycle: Plate >> Rinse >> Nitric Acid Pre-dip (0.5% by Vol) >> Rinse >> CONSOL SpectraMATE™ 25 >> Cold water rinse >> Hot water rinse >> Dry.

Maintenance: Periodic titration is required to control the usage concentration. If the analysis shows the proper amount of ***CONSOL SpectraMATE™ 25*** is present, and the pH is high, small additions of 50% by volume of Nitric acid can be made to adjust the pH.

Attention: This sheet is only meant to provide Features and Benefits of the process mentioned. For detailed Usage, Please refer the product Technical Data Sheet. For Safety, handling and Chemical information please refer the Safety Data Sheet. These can be provided through a *Consolidated Metal Finishing Pvt. Ltd.* representatives or requesting us for the same by email.