

Three J's Industries

Trivalent Post Finishes

Trivalent Clear

Trivalent Yellow

Trivalent Black

Trivalent Olive Drab

Trivalent Red

Trivalent Blue

Trivalent Metric Blue

Trivalent Green

Trivalent Orange

Trivalent Purple

Trivalent Fuchsia

Seals

Seal #2, 3, 4, 5

Seal # 5 Plus

Enseal #26

Gleitmo 603

Gleitmo 627

THREE J'S INDUSTRIES, INC.
METAL FINISHERS

The **THREE** J's

Joanne, Judy and Jennifer are standing by and waiting to meet your metal finishing requirements!

Call us today for a quote!

701 Landmeier Road
Elk Grove Village, IL 60007

Phone: 847-640-6080

Fax: 847-640-6081

E-mail: sales@threejsplating.com

www.threejsplating.com



THREE J'S INDUSTRIES, INC.
METAL FINISHERS

**HI-
PERFORMANCE
TRIVALENT
CHROMATES**



HEXAVALENT

VS.

**HI-PERFORMANCE
TRIVALENT
CHROMATES**

**LET THREE J'S TAKE YOU
INTO THE FUTURE!**

IT'S AS EASY AS

1-2-3

HEXAVALENT VS. TRIVALENT

Hexavalent chromates are the traditional chromates that electroplated parts are coated with to improve corrosion protection. The chemistry consists of a chrome composition that is Hexavalent in nature (Cr +6). It provides a uniform coating that has excellent protection of the plated part. Electroplating facilities are set up for this type of chromated conversion processing.

In 1999, trivalent chromates became the new, environmentally favorable chromates that electroplated parts are coated with to enhance the corrosion protection.



For an electroplating facility to satisfy trivalent chromate requests, a new line with extra tanks must be put in place. The electroplater must keep these tanks separate. It requires purchasing new chemistry that is more expensive. It also requires more space and equipment to process the trivalent chromates. It is more expensive to both the electroplater and the end customer. Another thing to remember is that the trivalent chromates do not perform as well as the hexavalent. In addition, a true hexavalent chromate will heal itself when the surface is scratched. The trivalent version does not have this additional property. Hexavalent chromates are better for protection but the trivalents are more environmentally friendly.



Three J's Industries can successfully provide both for you!

To sum it up.....

⇒ Trivalent chromates are the future. Required changes in the automobile industry will replace hexavalent with trivalent chromates. **Three J's is here to help you!**

⇒ Trivalent chromates are the new, environmentally friendly chromates.

⇒ It is a longer and more expensive process due to the new equipment and processing time.

THE GOOD NEWS!

Three J's has been involved in the running and testing of trivalent chromates since 1999.

We produce beautiful looking and high corrosion resistant trivalent chromates to meet and exceed your customer's needs.

Let Three J's be your Resource!

Testing at Three J's Industries

Three J's Industries can perform salt spray testing per ASTM B117 in our state of the art facility.



Plating	Hexavalent	Trivalent w/o seal	Trivalent w seal
Zinc .0001 w/ clear	24 WR 36 RR	24WR 36RR	N/A N/A
Zinc .0003 w/ clear	36 WR 72 RR	120 WR 216 RR	240 WR 500 RR
Zinc .0005 w/ clear	76 WR 120 RR	192WR 264 RR	240 WR 576 RR
Zinc .0002 w/ Yellow	36 WR 72 RR	72 WR 96 RR	120 WR 240 RR
Zinc .0003 w/ Yellow	72 WR 96 RR	384 WR 480 RR	456 WR 648 RR
Zinc .0005 w/ Yellow	72 WR 144 RR	384 WR 528 RR	456 WR 696 RR

These salt spray results listed above in the chart are based on a variety of parts held under optimum conditions. The results will vary based on the type of part and the application of the part. The above results are estimates.

Three J's Industries can be your resource for the future!

Our years of experience and professionally trained staff can make it as easy as

1-2-3!

