

TRIVALENT BLUE BRIGHT CHROMATE

EChrome™ Ultra Blue

How to

GET A BLUE BRIGHT CHROMATE *with* SUPERIOR CORROSION RESISTANCE

Switch to E-Chrome™ Ultra Blue
High Salt Spray Resistant Trivalent Blue Bright Chromate



**BRIGHT BLUE
CHROMATE**
NON-YELLOWING
**OUTSTANDING
SALT SPRAY
RESISTANCE**
**NO TOP
COAT NEEDED**

**WORKS WELL ON PLATED ZINC, DIE CAST
ZINC AND GALVANIZED ZINC SURFACES**
EASY TO CONTROL AND USE
STABLE BATH WITH LONG LIFE
UTILIZES ONLY A SINGLE DIP

Tired of having to do multiple dips and yellowing problems to achieve a blue bright chromate and high salt spray resistance? Look no more! Now you can have it all with EPI's E-Chrome™ Ultra Blue, the next generation chromate.

Ultra Blue gives you everything in one, easy-to-use formula. Ultra Blue meets all automotive and industrial standards for blue bright trivalent chromate. For alkaline non-cyanide and chloride zinc-plated surfaces and galvanized zinc surfaces, E-Chrome™ Ultra Blue is also used as a conversion finish on zinc die-cast surfaces prior to powder coating. Ultra Blue is simple to control and can be used with automatic feeder equipment, boosting your productivity. All this, with a level of corrosion resistance second to none, at a fair price!

**Start taking advantage of
E-Chrome™ Ultra Blue today!**

Send sample parts for plating.
Call 262-786-9330 or
e-mail moreinfo@epi.com
to request a test solution,
develop a pilot line, or
for a trial and approval installation.

EPI Electrochemical
Products Inc.

Learn More
>> See reverse for
Bath Make-up,
Operating Conditions
and Applications.

E-Chrome™ Ultra Blue

E-Chrome Ultra Blue is a single-dip, blue trivalent chromate that offers high salt spray resistance on zinc-plated surfaces of up to 150 hours to white rust versus only 18-24 hours salt spray resistance with hexavalent, per ASTM B-117. Resistance to red rust is typically 240 hours, depending on zinc plate thickness. No additional top coat is required to obtain this high degree of corrosion resistance. It produces a beautiful blue bright trivalent chromate, without yellowing, to meet automotive and all other industrial standards.



- Produces a true blue conversion coating on plated alkaline non-cyanide and chloride zinc deposits.
- For the highest degree of protection, a separate component called **E-Chrome Ultra Blue HP** is added at 2% by volume.
- Environmentally friendly.
- Competitively priced.
- RoHS compliant.



E-Chrome™ Ultra Blue has many benefits:

- Blue bright trivalent chromate.
- Non-yellowing.
- High corrosion resistance.
- Single dip.
- Easy to control — operator friendly.
- Stable bath with long life
- Utilize for both rack and barrel chromating.
- Can be used with automatic feeder equipment.
- Works well on plated zinc, die cast zinc and galvanized zinc surfaces.

*Hours to red rust depends upon the thickness of the zinc plate.

BATH MAKE-UP

	OPTIMUM	RANGE
E-Chrome Ultra Blue	2% by volume	1-3% by volume
E-Chrome Ultra Blue HP	2% by volume	1-3% by volume

OPERATING CONDITIONS

	OPTIMUM	RANGE
pH*:	1.8	1.5-2.0
TEMPERATURE:	75° F (24° C)	65°-90° F
TIME:	20 seconds	1-40 seconds
AGITATION:	Air agitation may be helpful in rack situations	

*Lower pH with Nitric Acid; raise pH with Ammonium Hydroxide

Step by Step Application

Plating on zinc-plated surfaces with **E-Chrome Ultra Blue** is accomplished as follows:

1. Zinc plated surfaces. The brightness of the final finish will be directly related to the brightness of the plated surfaces.
2. Cold water rinse.
3. 1% by volume Sulfuric Acid or Nitric Acid rinse to neutralize residual plating solution.
4. Cold water rinse.
5. Immersion in **E-Chrome Ultra Blue** solution for the length of time required to produce the desired finish.
6. Cold water rinse.
7. Hot Air Dry — 150° F

Call or e-mail for more info:
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CAUTION: E-Chrome Ultra Blue contains nitric acid. The Material Safety Data Sheet for E-Chrome Ultra Blue must be read and understood before working with this product.

IMPORTANT NOTICE! For Industrial Use Only

The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose: seller's and manufacturer's only obligation shall be to replace such quantity of the product as proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. **Neither seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct, incidental or consequential, arising out of the use or the inability to use the product.**