

WATER DISPLACING OIL

E-Tec 509

How to **INCREASE CORROSION PROTECTION** *and* **ELIMINATE THE HIGH COST** of Painting, E-Coating, & Electroplating

Stop Rust Before you go off track!! Switch to **E-Tec 509** to be tracks ahead of your competition for your black oxide, zinc phosphate and bare metals finishes.



Meets Military Specs



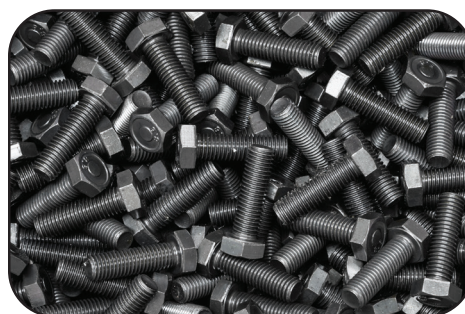
Corrosion Protection
Salt Spray/Humidity



No Barium



Calcium-Based



Epi understands that today's plant environments demand their metal finishes meet a wide range of requirements. Our latest development, E-Tec 509 provides superior corrosion protection versus competitive rust preventatives/finishes.

E-Tec 509 is an inexpensive, easy-to-control process that allows you to increase protection while eliminating the cost of painting, e-coating, and electroplating.

**Get on board with
E-Tec 509 today!**

Call 262-786-9330 or
e-mail: us-sales@epi.com
to request a sample of E-Tec 509.

EPI Electrochemical
Products Inc.

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

E-Tec 509

Recommend Uses

- It can be applied to wet or dry metal parts for protection while in process or storage. It is used at 100% by volume.
- It seals and enhances the depth of black of EPI's B/Ox (US 10B finish), Insta-Blak, Ultra-Blak, Kool-Blak and E-Phos metal finishes.
- Excellent protection for dies, jigs, machine surfaces, stampings, firearms, fasteners, automotive, architectural, military and marine applications.



Black Oxide parts with
E-Tec 509 passes
168 hours Salt Spray
ASTM B-117

Properties

Resulting finish is eye-appealing, satin dry soft, non-tacky appearance and feel.

Step by Step Application of E-Tec 509

It is applied by dipping, brushing, or low-pressure spray. Tank composed of mild steel with a drain for removing water at the bottom of the tank. Drain water every day for best results. Using a sight glass assists in determining where the water level is in the tank.

1. Parts are finished in EPI B/Ox, Insta-Blak, Ultra-Blak, Kool-Blak and E-Phos finishes.
2. Rinse 30-90 seconds to remove the residual finishing chemistry. If possible let rack parts drip or leave barrel up to rotate for 10-30 seconds before entering the E-Tec 509 tank.
3. Dip into the E-Tec 509 solution moving the parts in and out of the solution 4-6 times to totally displace the water off the surface completely. Next soak for an additional 2-5 minutes.
4. Remove parts from the E-Tec 509 to a drain table/drying area.
5. Parts should be dry in 5-10 minutes depending on temperature, humidity, and air movement. Small parts can be rapidly dried in a spin dryer.

To remove E-Tec 509 on process parts simply use an EPI alkaline soak cleaner such as E-Kleen SR 102-E.

Specs

- ASTM-D-1748
Humidity 120 days
- ASTM B-117 Salt Spray
168 hours over Ultra
Blak 400 black oxide
Passes Corrosion test
- Mil-C23411 and Mil
C-81309
- Passes Mil-C-16173D,
grade 3 water displacing
oil test
- Passes Mil-C 22235
stain test
- Approximately 2500
square feet per gallon
- Approximate Film
thickness 0.20 mil
(5 microns)

Call 262-786-9330 or
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WARNING: Contains petroleum distillates. Solutions are combustible. Harmful or fatal if swallowed. Use with adequate ventilation. If swallowed, do not induce vomiting. Call a physician immediately. Wear eye protection (glasses, goggles or face shield) when preparing solutions and working with solutions. Avoid prolonged contact with skin. Wash from skin with soap and water. For eye contact, flush freely with water and get medical attention.

CAUTION: Do not work with the E-Tec products without first reading and understanding the SAFETY DATA SHEET furnished by EPI.

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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.**