CRESTCHEMICALS

Black Oxide

Rust Resistant Decorative Black Finish

Description

Crest Black Oxide is an alkaline oxidizing process for wrought iron, cast and malleable iron, plain carbon and low alloy steels. It is tough and easy to control. It chemically ingrains a black protective finish and becomes an integral part of the metal. Crest Black Oxide treated metal can be formed and shaped, bumped, or scratched, and will not crack, chip, peel or flake. Color quality remains consistent for a long period of time after many parts have been treated. Polished metal parts, when treated with Crest Black Oxide, will produce a jet black, glossy finish. Rough, or etched metal, when treated, will produce a rich matte finish.

- Does not increase, or decrease, the dimensions of the treated metal.
- Coating thickness is only a few hundred-thousandths of an inch thick.
- Tolerances and thread sizes are not affected.
- Evaporation is kept to a minimum.

Specifications

This product meets or exceeds all qualifications for the following:

- MIL-DTL-13924D Class 1
- MIL-C-46110B Class 1

Method of Use

Application Methods

- Immersion

Mixing Instructions

- Mix 7 pounds of product per gallon of tank volume. For example, to prepare a 100 gallon bath, add 700 pounds of product to 75 gallons of water.
- **Caution:** Slowly add the product to the water with agitation to prevent splattering.

Application Instructions

- **Immersion**
  - Remove any oil, grease, or paint prior to using Black Oxide.
  - Heat tank to 290°-300°F.
  - Immerse part in the solution.
  - Part should be rinsed with water within two minutes of removing the part from the solution.

Maintenance

Electroplater's cyanide eggs may be added each day of operation to remove iron from the bath. The quantity to be used will depend upon the work volume. This may be added as a regular process sequence, morning or night. Bath concentration should be controlled by maintaining the boiling point of the solution within the above range. If boiling point drops below 280°F, add more compound; if it rises above 310°F water must be added slowly. The tank should be operated at a pH of 13+.

Caution

Do not use on tin or aluminum surfaces. This product contains sodium hydroxide. Avoid contact with skin, eyes, and clothing. Refer to product labels and Safety Data Sheets for precautionary and handling information.

Product should be stored at no lower than 50°F and no higher than 100°F.

Warranty and Liability Disclaimer

The above information and recommendations concerning this product are based upon our laboratory tests and field use experience; however, since conditions of actual use are beyond our control, any recommendations, or suggestions, are made without warranty, expressed or implied. Manufacturer's and seller's sole obligation shall be to replace that portion of the product shown to be defective. Neither shall be liable for any loss, damage or injury, direct or consequential, arising out of the use of this product.

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