

CREST

Industrial Chemicals, Inc.

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.

ADVANTAGES

- 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

EQUIPMENT

Black Oxide should be used in a heavy plate steel tank. The heat source should also be constructed of heavy steel.

MIXING INSTRUCTIONS

1. Clean parts prior to processing. Your Crest sales representative will recommend the best cleaner for your operation.
2. 7.0 lbs. +/- 0.2 lbs of Black Oxide should be used per gallon of tank volume. To prepare 100 gallons of bath, add 700 lbs. of Crest Black Oxide to 75 gallons of water. CAUTION: Slowly add compound to water with agitation to prevent spattering.
3. Heat tank to Preferred 290-300F (maximum 310F, minimum 280F).

RINSE

Rinse parts with Water for 1 to 2 minutes after removal from tank, then dip or coat with Crest PRP-6 water displacing oil.

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 280F add more compound; if it rises above 310F water must be added slowly. The tank should be operated at a pH of 13+.

SPECIFICATION

Crest Black Oxide meets MIL-C-13924C, Class 1.

CAUTION

This product contains sodium hydroxide. Avoid contact with skin, eyes, and clothing. Refer to MSDS for further precautionary requirements for proper handling and use. Do not use on tin or aluminum surfaces.

DISPOSAL

This product is usually treated as a waste oil for disposal. Check with your local government for disposal information.

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.