



CHEMICALS

Cal Pac Chemical Co., Inc.

A Cleaning Compound for your Needs

Enebrown Dip

An immersion oxidizing material for copper based alloys.

Enebrown is a concentrated, mildly acidic, non-sulfide containing liquid material formulated to produce an oxidized finish on copper based alloys by simple immersion at room temperature. By varying the operating concentration of the Enebrown Dip and by varying the immersion time, a range of color tones from light brown to brown and to blackish-brown can be obtained. The color produced from the Enebrown solution is initially non-uniform. Light mechanical wiping or burnishing will serve to uniform the finish out and to produce, where desired, the interesting and unique “highlighted” and “antiqued” effects.

For applying the Enebrown Dip, it is necessary that the copper-based surface, whether solid or plated, be uniform and clean. Conventional cleaning cycles can be used to clean the copper-alloy parts prior to treatment in the Enebrown Dip. Where pre-cleaning is inadequate, the adherence of the Enebrown deposit will be poor.

Applications for the Enebrown Dip include; antique finishes for lamps, ornaments, medals, hardware components, etc. Since the Enebrown deposit is quite thin and because it has little corrosion resistance, parts treated with this material should be lacquered for maximum service.

Operating Conditions

Concentration:	1 part Enebrown to 3-6 parts water.
Temperature:	75° - 90° F
Immersion Time:	30 seconds to 3 minutes, depending on concentration and tone desired.
Equipment:	Plastic or fiberglass tanks

Control: Dip may be controlled by small additions (1-2 fluid ounces/gallon) of concentrated Enebrown Dip. When the time interval to produce the desired tone becomes inordinately long and further additions of Enebrown dip to not increase rate of color product, the bath is spent and should be replaced.

Caution: If taken internally, Enebrown Dip is poisonous.
Antidote: induce vomiting; when vomit fluid is clear, give 2 tablespoonfull's of Epsom Salt or Milk of Magnesia in water. Get medical attention.

Avoid contact with skin and eyes. Use protective clothing (rubber gloves) when handling this material. In case of contact with skin, affected area should be thoroughly flushed with water; for eyes, flush with water for at least 15 minutes and obtain medical attention.

Avoid contact of Enebrown Dip with concentrated acids or oxidizing materials.