ENE Black Immersion D8

ENE Black Immersion D 8 is a liquid, room temperature metal antiquing formulation for copper alloys, nickel, and silver. It produces light to brown color ranges for copper alloys, and black colors for nickel and silver.

Features & Benefits

Uniform deposition coating	Easily relived to get varying levels of worn antique
ROHS and REACH compliant	Product good for use in Europe

Operating Conditions

Concentration	5 – 50% by vol. More dilute solution produces light tones. For oxidizing nickel and silver, 25 – 50% by vol.
Temperature	70°F – 90°F
Immersion Time	30 sec – 3 min, depending on concentration and tone
Equipment	Plastic or fiberglass tanks

ENE Black Immersion D 8 is a concentrated, mildly acidic, non-sulfide containing liquid composition formulated to produce colored finishes on copper-based alloys, nickel and silver by simple immersion at room temperature. By varying the operating concentration of the ENE Black Immersion D 8 and by varying the immersion time, a range of color tones from light brown, to brown and to black can be produced on copper-based alloys. Black colors can be produced on nickel and silver by using concentrations of 25-50% by volume ENE Black Immersion D 8 with water. The finish produced in the ENE Black Immersion D 8 can be readily relieved with steel wool, scratch brushing, lea wheeling or by other mechanical means to produce a variety of “highlighted” or “antiqued” finishes. Coloring with a soft wheel of burnishing the parts in sawdust, corn meal or wood shells may allow to produce uniformly toned finish. Application of a lacquer or oil coating on the finish will deepen and enhance the tones produced with the ENE Black Immersion D 8 system.

Coatings produced with the ENE Black Immersion D 8 solution are relatively thin, have little corrosion resistance and should be lacquered to afford maximum protection and service.

For successful application of the ENE Black Immersion D 8, it is necessary that the work surface, whether solid or plated, be uniform and clean. Conventional cleaning cycle can be used to clean the parts prior to treatment in the ENE Black Immersion D 8 solution. Where pre-cleaning is inadequate or where the initial work surface is blotchy or non-uniform, the quality of the “take” of the ENE Black Immersion D 8 may be inferior in terms of uniformity of color or adherence. Chromates or other anti-tarnish type dips should not be used prior to application of the ENE Black Immersion D 8 as they may interfere with the ability of the ENE Black Immersion D 8 to oxidize properly.

Controls

Dip may be controlled by small additions (1-2 fluid ounces/gallons) of concentrated ENE Black Immersion D 8 solution. Additions should be made when the prepared solution slows down or does not develop satisfactory color. Solutions of ENE Black Immersion D 8 may be filtered to remove accumulated suspended material and to clarify the solution, should this be necessary. The life of the ENE Black Immersion D 8 solution is almost indefinite and maintenance additions of the ENE Black Immersion D 8 concentrate should be adequate to provide consistent work quality. However, conditions may arise because of excessive carry-in of contaminants, so that the performance of the ENE Black Immersion D 8 solution cannot be restored by additions of concentrate. At this point, the ENE Black Immersion D 8 solution may require complete replacement.

Waste Disposal

Spent ENE Black Immersion D 8 solutions and effluents can be treated by reducing the soluble Selenium compounds to elemental Selenium. Our Aquapure team will be able to recommend the proper waste disposal method.

Caution

ENE Black Immersion D 8 solutions contain soluble Selenium compounds. Solutions of ENE Black Immersion D 8 should not be overheated since the vapors are toxic. If taken internally, ENE Black Immersion D 8 in large dosages may be poisonous.

Use ENE Black Immersion D 8 solution only with adequate ventilation. Avoid contact with skin and eyes. Use protective clothing when handling this material. In case of contact with skin, affected area should be thoroughly flushed with water; for eyes, flush with clean water for at least 15 minutes and obtain medical attention

Avoid contact of ENE Black Immersion D 8 with concentrated acids or oxidizing material

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