



Product Bulletin

Better Chemistry. **Better Business.**

Enerox™ DW-73

Product Code: 2380022
Revised Date: 01/08/2007

Enerox™ DW-73

Enerox™ DW-73 is an acidic concentrate formulated for the descaling, deoxidizing and bright dipping of copper, brass and bronze alloys. The composition does not contain chromates, nitrates, phosphates or fluorides. It is non-fuming and substantially reduces waste treatment requirements and expense. **Enerox™ DW-73** may also be used to desmut and descale aluminum and to pickle nickel-silver and gold. The process is effective in both rack and bulk operations.

Enerox™ DW-73 is used at concentrations of 5-30% by volume and at temperatures from 80° - 160°F depending on the intended application. Higher concentrations of DW-73 and higher temperatures favor faster pickling, descaling and produce better brightening of the work. Agitation, either of the work or the solution also improves the brightening effect of the process. Low temperatures and lack of agitation will result in a matte appearance.

OPERATING CONDITIONS

	Range	Preferred
Concentration	5% - 30% by volume	10% - 20%
Temperature	80-160°F	140-145°F
Time	30 seconds – 5 minutes	2-3 minutes

MAINTENANCE AND CONTROL

Enerox™ DW-73 solutions should be maintained by periodic additions of the concentrate. Analytical procedures for the titration of the solution are available on request. In use, solutions of **Enerox™ DW-73** will build up in dissolved metal salts, i.e. copper, zinc, etc. When the concentration of these dissolved salts reaches a point where they severely slow down the rate of the bath or the quality of the brightening, the solution should be discarded and remade.

EQUIPMENT

Tanks: Stainless Steel (300 series), polypropylene or other temperature and acid stable plastic.

Heating: Stainless steel coils, panels or immersion heaters, quartz immersion heaters or Teflon heating coils.

Dipping Baskets: Polypropylene or stainless steel basket, polypropylene plating cylinders.



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PRE & POST TREATMENT:

Parts should be cleaned free of grease, oil and soil prior to immersion in **Enerox™ DW-73**. Normal alkaline cleaning, vapor degreasing, etc. cycles are usually adequate.

Following treatment in the **Enerox™ DW-73**, solution parts should be thoroughly rinsed in a clean water rinse. Parts at this stage may then be dried and lacquered, treated through an anti-tarnish or neutralizing stage or processed through normal plating cycles. The most appropriate post treatment cycle will naturally depend on the desired end use.

WASTE TREATMENT

Enerox™ DW-73 and its solutions are acidic (sulfuric acid based) in composition. Neutralize with alkali to conform to accepted regulations with respect to pH. Solutions of **Enerox™ DW-73** will also contain the dissolved metals that are being processed through the system. These materials should be treated in accordance with all local and federal requirements.

CAUTION

Enerox™ DW-73 is an acidic composition. Handle with the same precautions used for handling sulfuric acid. Wear protective clothing, rubber gloves and eye goggles when handling **Enerox™ DW-73** and its solutions.

PACKAGING

Enerox™ DW-73 is supplied in 15 and 55 gallon DOT approved containers. DOT labeling: Corrosive Liquid N.O.S. UN 1760

WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.