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Metal Guard® 830

Product Code: 2508030
Revised Date: 03/11/2009

Metal Guard® 830

DESCRIPTION

Metal Guard® 830 is a non-foaming, water-soluble, corrosion inhibitor that readily forms an effective rust preventative for iron and steel alloys that are packaged and stored indoors.

Metal Guard® 830 does not contain any inorganic salts; therefore, no powder residues are left on the surface of the metal. The thin film left behind also burns off cleanly in annealing or other high temperature operations.

FEATURES AND BENEFITS

- Excellent short-term rust protection on cast iron and powdered metal substrates
- Effective at low concentrations
- Low foam

TYPICAL APPLICATIONS

- In-process short-term corrosion inhibitor

PHYSICAL DATA

Specific gravity 1.016
 Solubility in waterinfinite
 Appearance and odorclear amber liquid
 pH (conc.) 8.19

OPERATING CONDITIONS

Metal Guard® 830 can be applied by immersion, spray, or flow-coat. Drying can be accelerated by heating the Metal Guard® 830 solution or by drying in a heated atmosphere.

Concentrations 1 to 10% (volume)
 Temperatures..... ambient to 160° F (71°C)



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CORROSION PROTECTION PROPERTIES

Metal Guard[®] 830 may be classified as a non-severe inhibitor, that is, it should not be used on parts or fabrications that are stored outdoors under exposure to the elements and temperature extremes. **Metal Guard[®] 830** solutions should be used on parts for in-process protection stored indoors, or boxed after the **Metal Guard[®] 830** solution has dried.

CONTROL PROCEDURES

Titration Procedure

1. Pipette a 25-ml sample into a 250-ml Erlenmeyer flask.
2. Add 20 drops of 0.04% methyl red indicator.
3. Titrate with 0.1N HCl until color changes from yellow to red.

$$1.01 \times \text{mls } 0.1\text{N HCl used} = \% \text{ (volume) Metal Guard}^{\text{®}} \text{ 830}$$

Dropper Bottle Procedure

1. Take a 5-ml sample of the bath using a graduated cylinder and put it into the 125-ml flask.
2. Add about 50 ml water and 3 drops methyl orange indicator.
3. Add N-94 solution drop-wise until the solution turns pink.

$$\text{Drops N-94 solution} \times 0.71 = \% \text{ (volume) Metal Guard}^{\text{®}} \text{ 830}$$

WASTE DISPOSAL

Discharge to a disposal system. In order to be completely informed on the latest regulations for your area, please contact the local authorities.

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.