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Evaluating Daubrite 1 VCI emitter (supplemental)

Background: The chemistry of the material composing the Daubrite 1 VCI emitter and the protection provided to carbon steel were evaluated and described in the previous report (06-017-1125).

Purpose: To evaluate the multimetal protection ability of Daubrite 1 VCI emitter.

Method: Copper panels
Daubrite 1 VCI emitter

Materials: Copper panels
Daubrite 1 VCI emitter

Procedure: The content of Daubrite 1 envelope was evaluated for protection properties on copper.
The plastic pellets from the envelope were placed in a beaker with 30 ml of water, copper panel was partially immersed in this solution; the blend was heated up to 60-70C and was held at this temperature for 2 hours. These conditions were chosen for the purpose to make good extraction of the chemicals from the plastic pellets. The copper panel immersed in the tap water was used as a control.

Results: The chemicals, containing in the Daubrite 1 emitter do not provide protection to copper. Pictures attached.

Conclusion: Daubrite 1 VCI emitter doesn't provide protection to copper, which limits the possibility of multimetal applications.

Project #: 06-017(2)

Estimated Cost of Project: 3 hours

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