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Evaluation of Multan F5002 Part 1

Background: Hutchinson Technology uses Multan F5002 in stamping applications. They are looking for an additive or replacement product that can meet all of the same requirements this product meets.

Purpose: To find an additive or replacement product for Multan F5002.

Materials: Multan F5002
M-370

Method: ASTM D-1748

Procedure: The following procedure was followed:

- 1) Using the samples to be tested, coat each of the solutions on carbon steel panels.
- 2) Hang the panels to dry for a minimum of 2 hours.
- 3) Place the panels in the humidity cabinet and inspect them for corrosion on a regular basis.
- 4) Record the number of hours for the panels to fail. Failure is determined by observing one spec of corrosion that is 1-3mm in diameter, or three specs of corrosion at least 1mm in diameter.
- 5) After 215 hours the panels were removed from the humidity cabinet, hung to dry, and then photographed.

Results: The following results were found:

Sample Description	Time to Failure
Multan F5002 (control)	20 hours
Multan F5002 + 5% M-370	210 hours

Conclusion: M-370 at a concentration of 5% is an excellent anticorrosion additive to Multan F5002 that significantly improves corrosion protection. In the second part of this project, the replacement of Multan F5002 will be recommended.



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Picture after 215 hours



Multan F5002 (control)



Multan F5002 + 5% M-370