

Specialised Inhibitor Tests

Why do inhibitor programs fail?

- Wrong inhibitor used?
- Below target dose used?

What is suitable dose of inhibitor?

- To protect parent steel?

What is suitable dose of inhibitor?

- To protect clean parent steel?
- To protect corroded parent steel?

What is suitable dose of inhibitor?

- To protect clean parent steel?
- To protect corroded parent steel?
- To protect welds?

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- To protect corroded welds?

What is suitable dose of inhibitor?

- To protect clean parent steel?
- To protect corroded parent steel?
- To protect welds?
- To protect corroded welds?
- To protect existing pits?

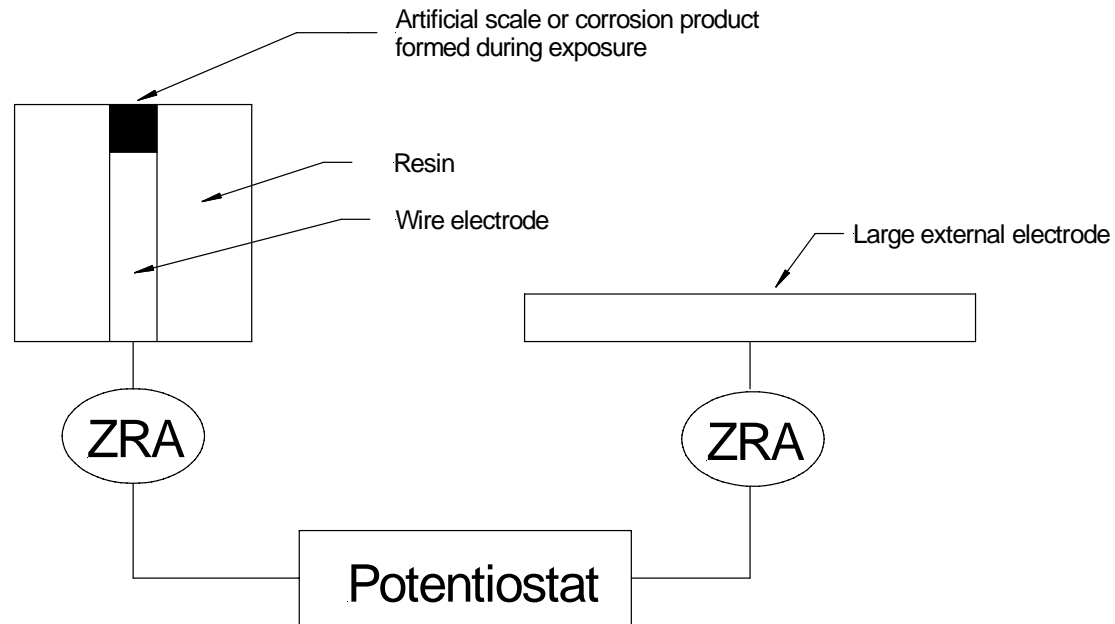
What is suitable dose of inhibitor?

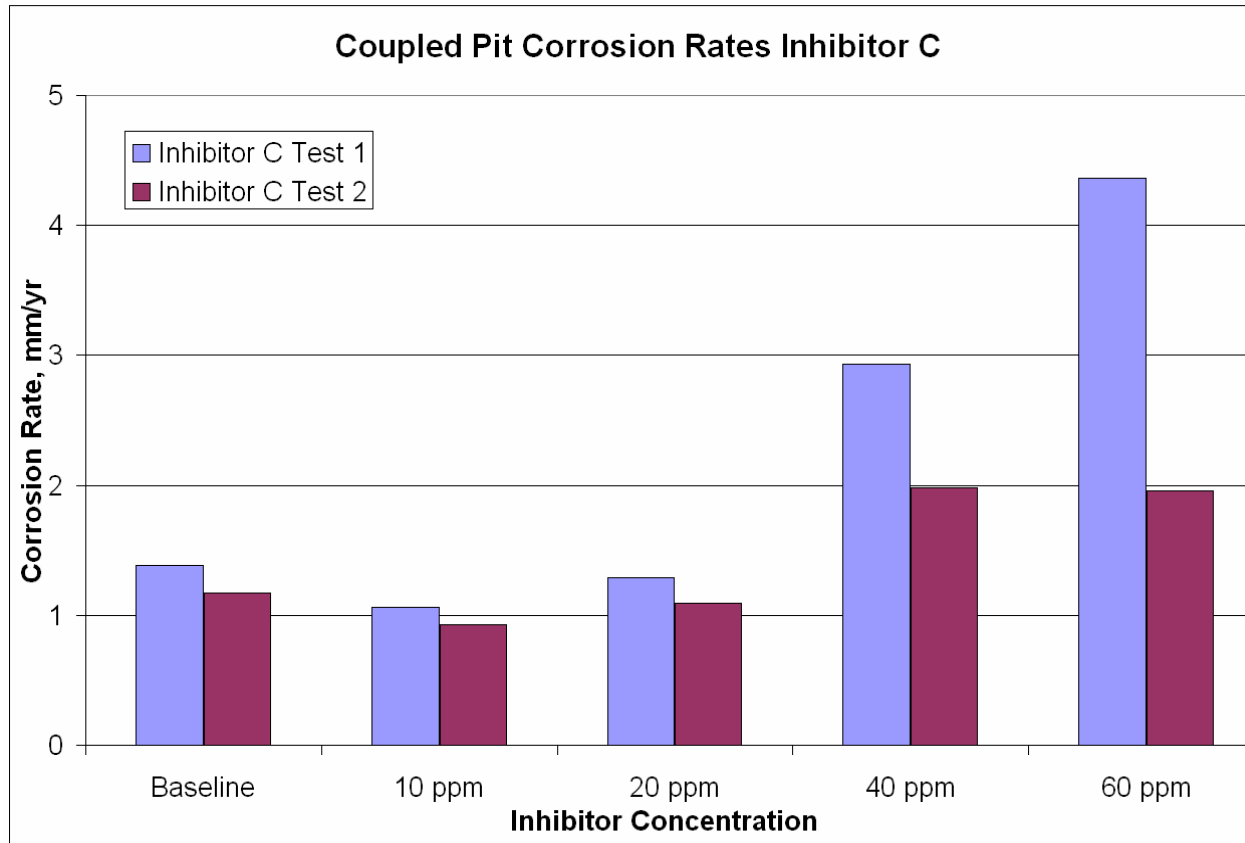
- To protect clean parent steel?
- To protect corroded parent steel?
- To protect welds?
- To protect corroded welds?
- To protect existing pits?
- To protect under scales?

What is suitable dose of inhibitor?

- To protect clean parent steel?
- To protect corroded parent steel?
- To protect welds?
- To protect corroded welds?
- To protect existing pits?
- To protect under scales?
- To protect under deposits?

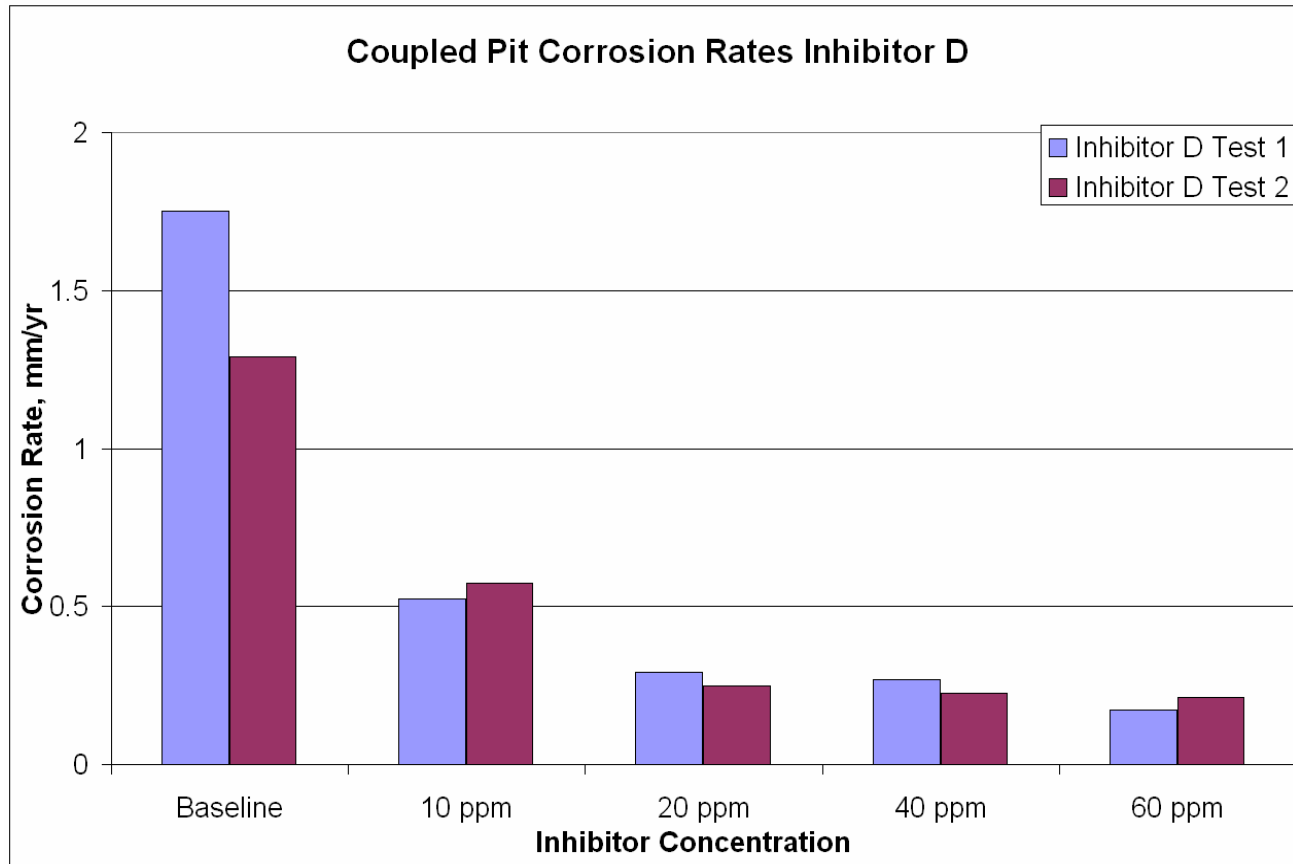
Pitting corrosion





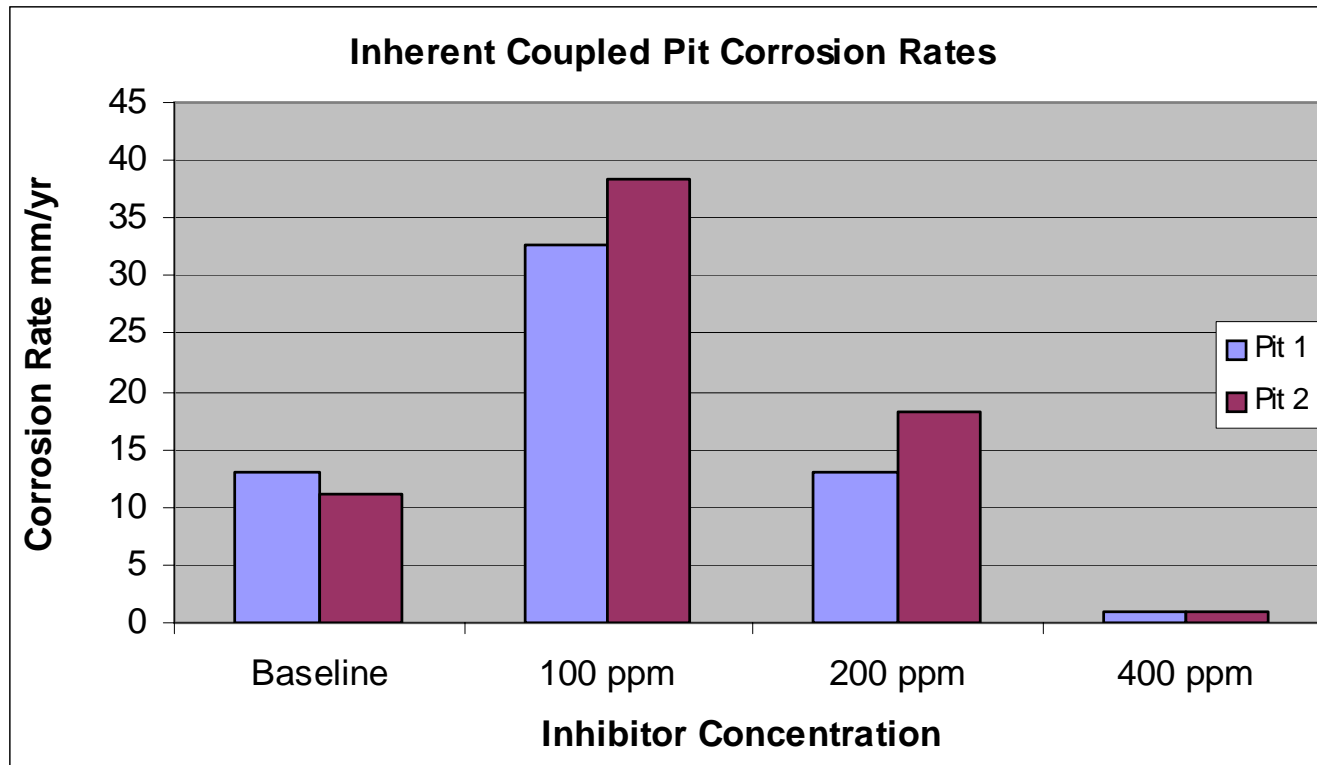
Corrosion rates vs inhibitor concentration for pit electrode in a sour system (2% hydrogen sulphide in carbon dioxide) with inhibitor C.

Duplicate results are shown.

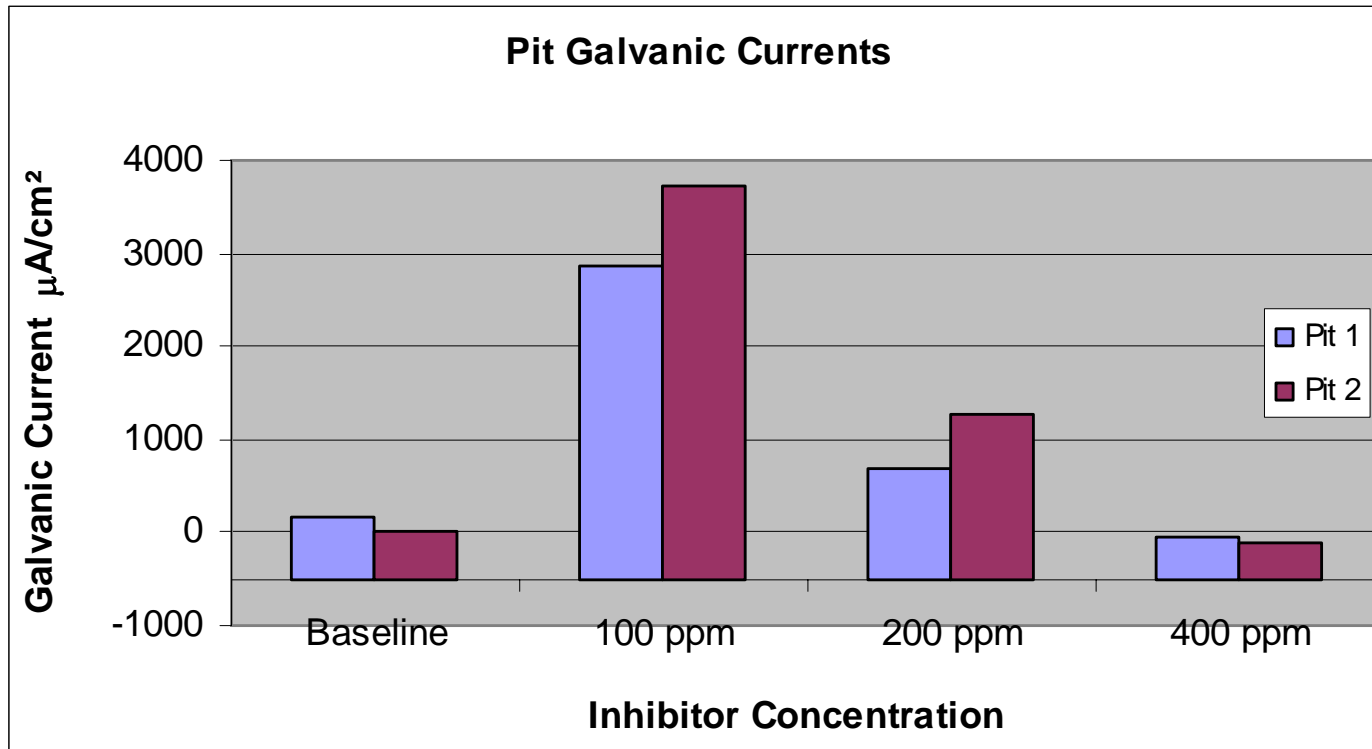


Corrosion rates vs inhibitor concentration for pit electrode in a sour system (2% hydrogen sulphide in carbon dioxide) with inhibitor D. Duplicate results are shown.

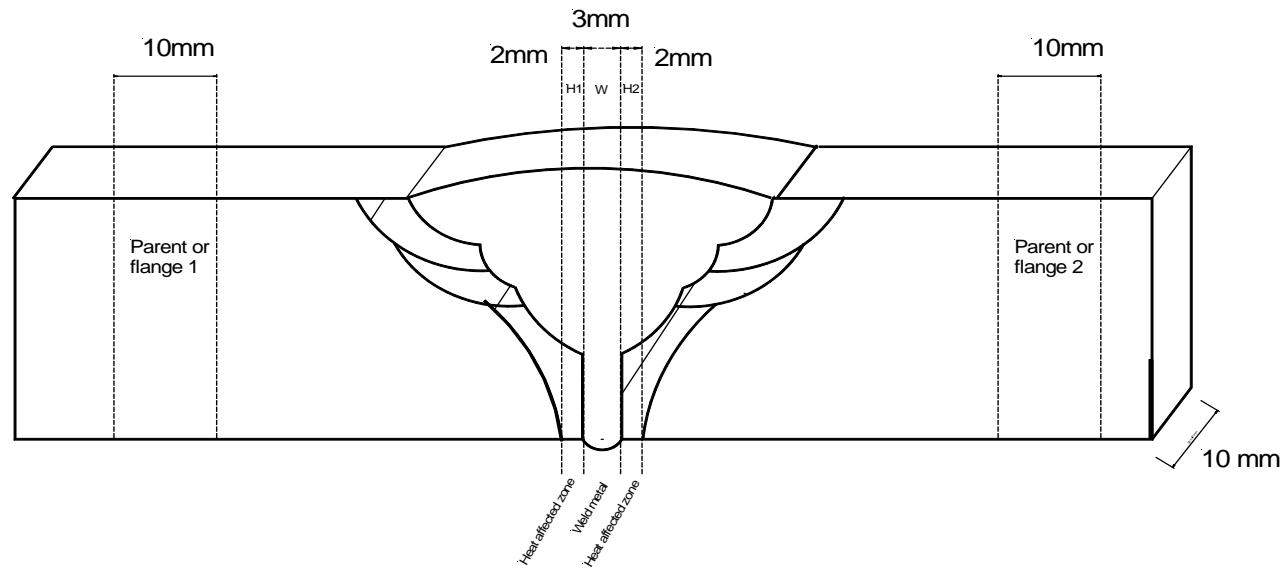
Barium Sulphate packed pit



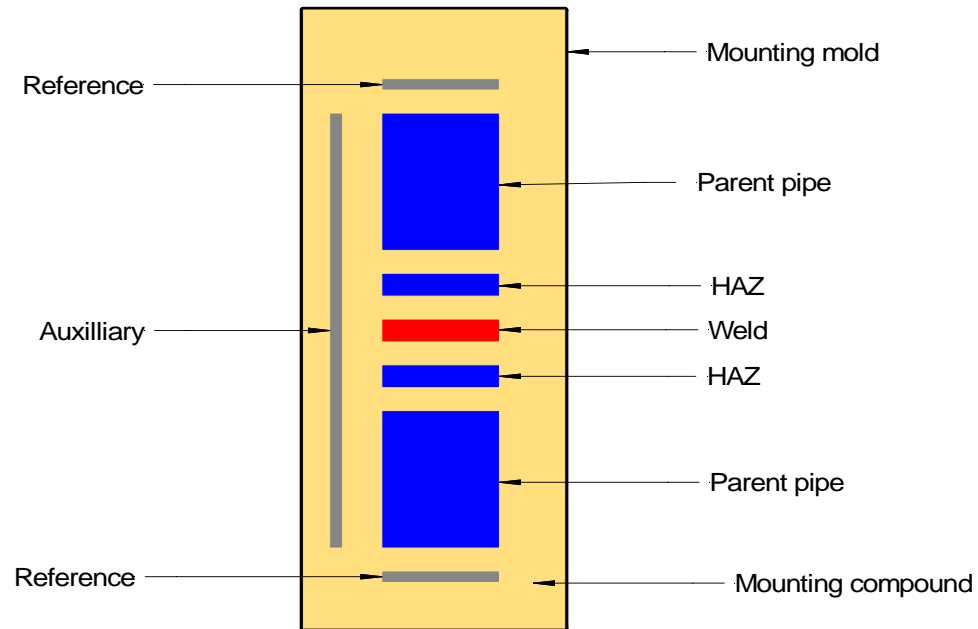
Barium Sulphate packed pit



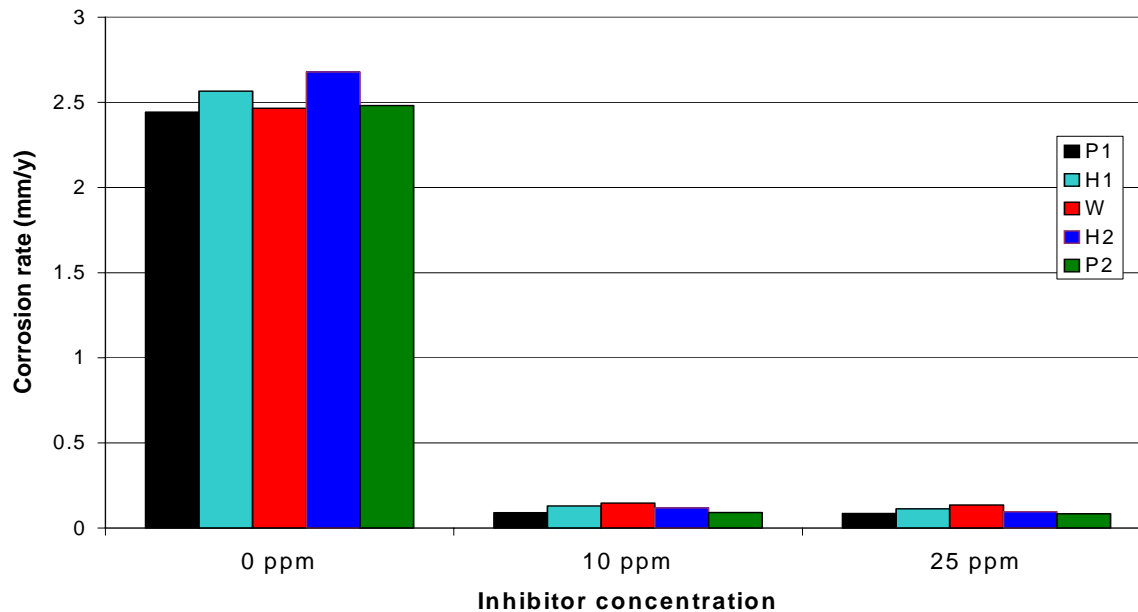
WELDMENT SECTIONING



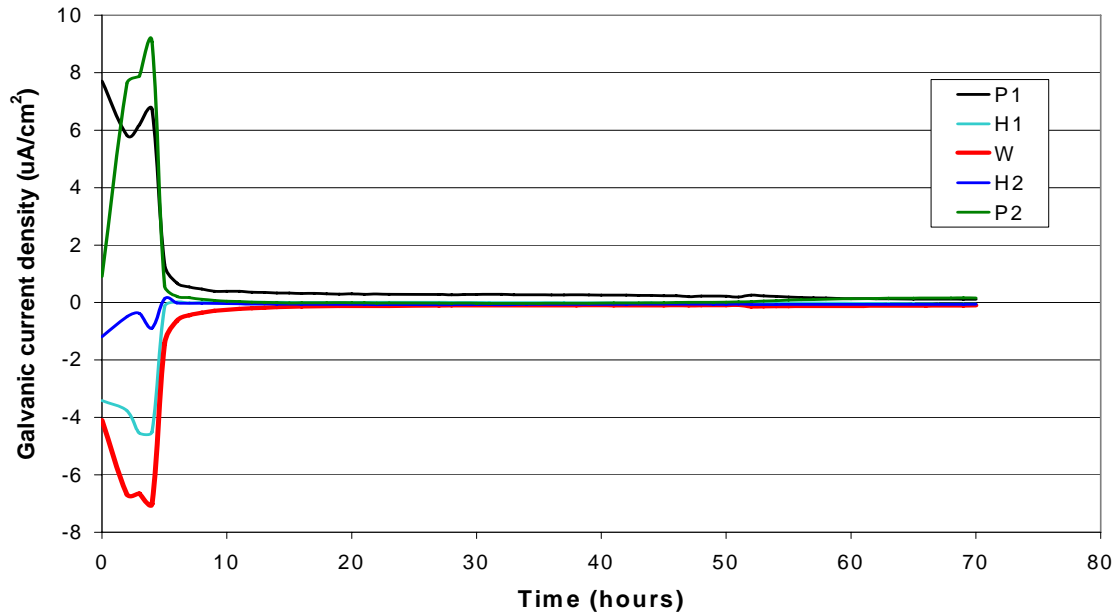
PROBE ARRANGEMENT



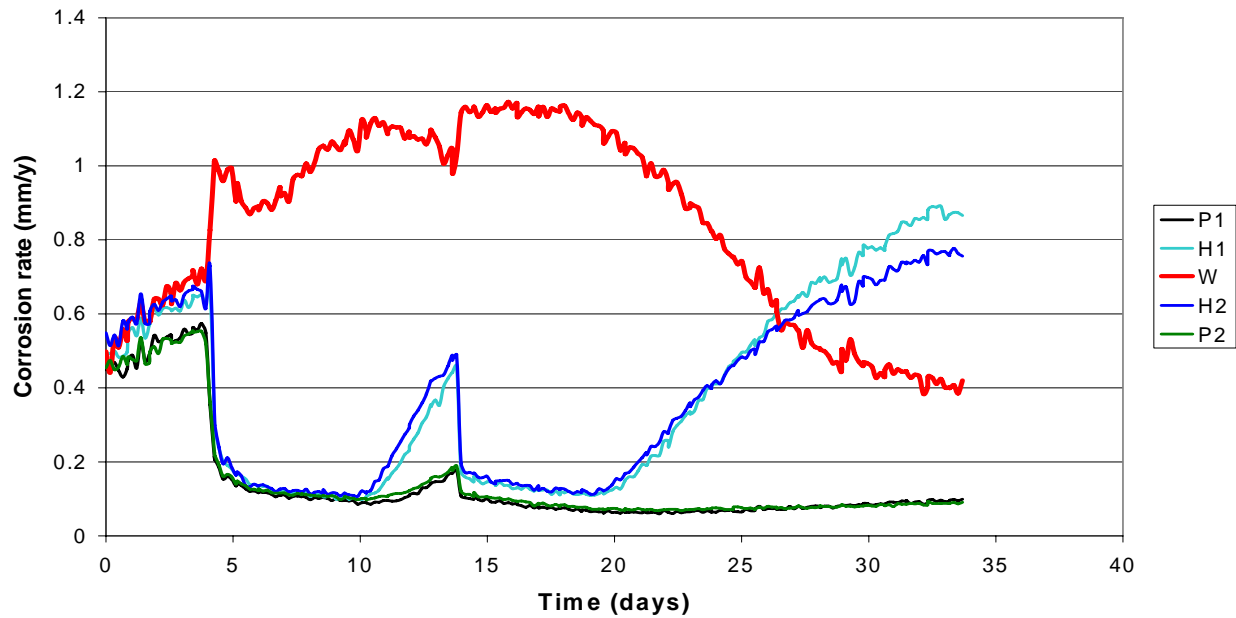
Uncoupled Corrosion rates - 4 hours precorrosion 10 ppm inhibitor at 4 hours extra 15 ppm at 48 hours



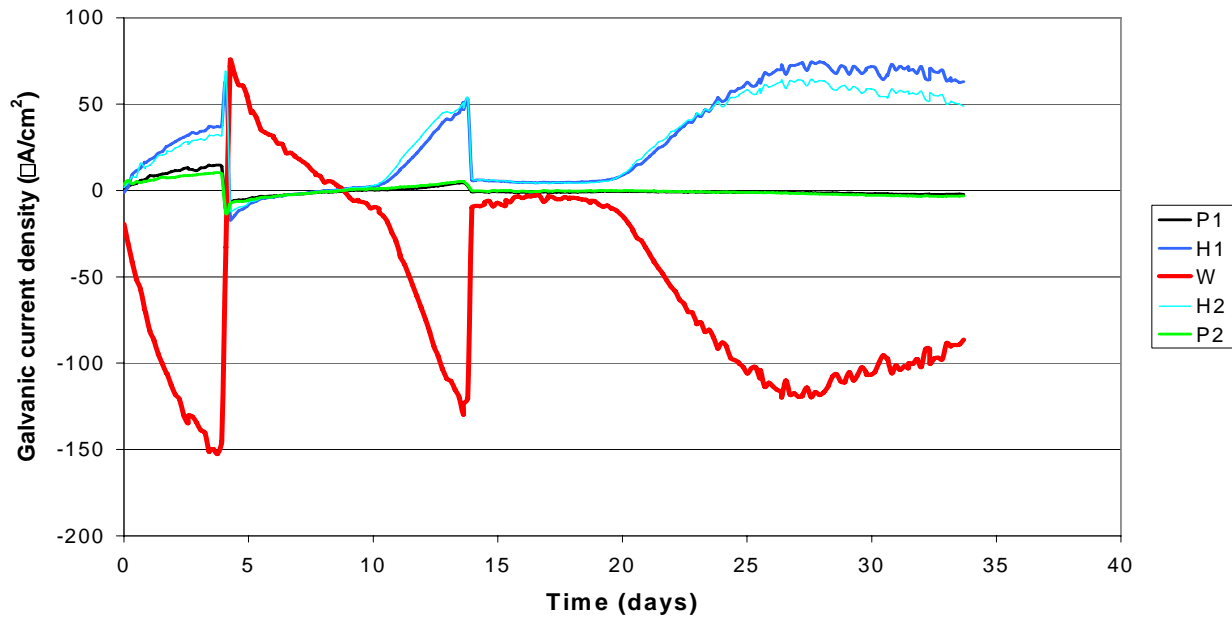
Galvanic currents - 4 hours precorrosion 10 ppm inhibitor at 4 hours extra 15 ppm at 48 hours



Coupled Corrosion Rates - 4 days precorrosion 10 ppm inhibitor at 4 days extra 10 ppm at 14 days



Galvanic currents - 4 days precorrosion 10 ppm inhibitor at 4 days extra 10 ppm at 14 days



Coupled Corrosion Rates - 4 days precorrosion 25 ppm inhibitor at 4 days

