

Corrosion in Cooling Systems

gentle cleaning and corrosion protection



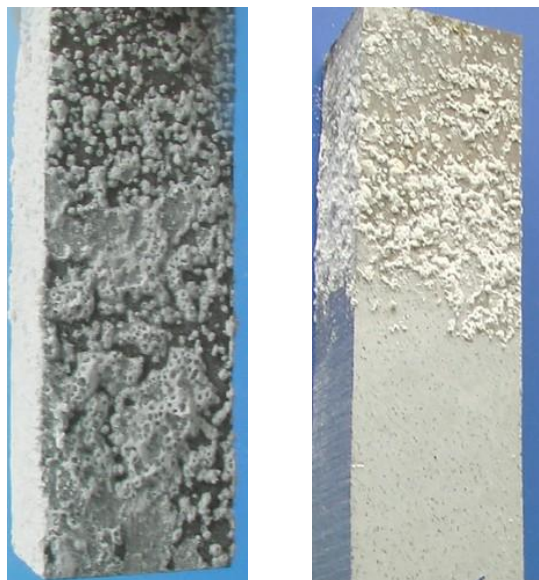
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Technology Development

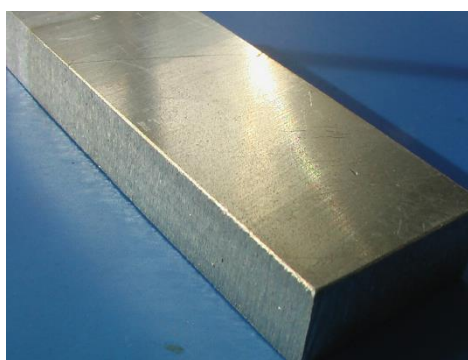
Research Department:
Primer and Chemical
Surface Treatment

In cooling systems are often parts of different metals installed. Especially if there exists a galvanic connection between these components, corrosion often occurs during operation with aqueous cooling media. The formed corrosion products could result in flow disturbances or might even lead to system failure.

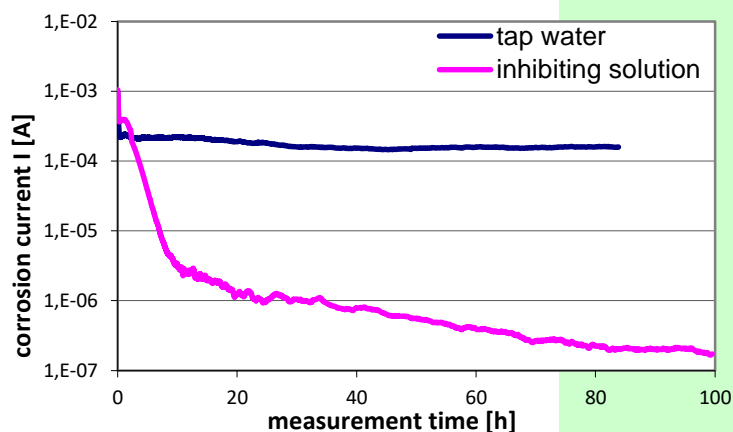
By appropriate methods even heavily corroded systems can be cleaned and protected against further corrosion.



aluminum test specimen in a water cooling circuit without inhibition before (left) and after (right, lower part) cleaning with pickling inhibitor



aluminum test specimen with inhibition: after 6 months in the water cooling circuit



corrosion current without and with inhibitor (material combination: stainless steel /aluminum)

Our range of services:

- scientific advice on methods how to suppress corrosion as well as to limit damage in cooling systems
- feasibility studies for cleaning of corroded systems and inhibition of corrosion
- laboratory tests and analytic investigations

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