

CASE STUDY | Cooling Closed Loop Corrosion Protection



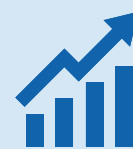
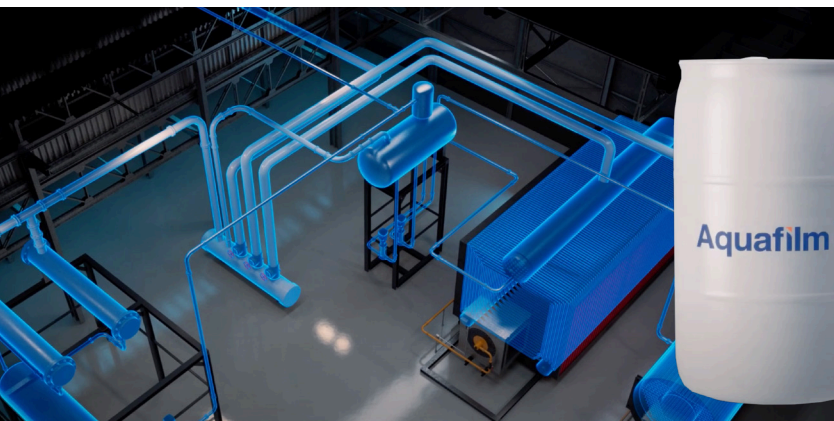
CHALLENGE

A plastic injection molding facility with more than 60 presses relies on process and chilled water to cool heat exchangers and molds. Many of these components contain aluminum and other mixed metals, making corrosion control a challenge with traditional treatment programs. Watertech identified this risk through corrosion coupon monitoring, which revealed unacceptable corrosion rates throughout the system.



SOLUTION

To protect these critical assets, Watertech quickly transitioned the system from its existing traditional treatment program to Aquafilm 1284C, an advanced amine-based closed loop treatment. The system was flushed and re-treated to establish a stronger corrosion protection program designed for mixed-metal systems.



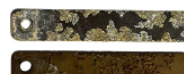
RESULTS



**Hundreds of
Thousands in
Assets Protected**

The image below compares corrosion rates for aluminum and steel alloys before and after the transition to Aquafilm 1284C. The results demonstrate a substantial improvement in corrosion protection and overall closed loop performance.

COUPONS
BEFORE
AQUAFILM



COUPONS
AFTER
AQUAFILM



Corrosion coupon monitoring, conducted over a typical 90–120 day study period, showed corrosion rates improving from the “Severe” range to “Excellent.” These results directly correlate to improved protection of heat exchangers and molds throughout the facility. By significantly reducing corrosion, the facility gained confidence that its investment in critical equipment is protected while minimizing the risk of costly repairs and unplanned downtime.

**More than a
water treatment solution.**

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