

Nalco Water 73801WR

*A Patented 3D TRASAR™ Technology to Inhibit
White Rust in Galvanized Condenser Systems*

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Every year, companies spend billions of dollars on corrosion-related equipment replacement costs and the associated production downtime. A major corrosion inhibition challenge that affects water management planning for galvanized condenser systems is how to minimize the impact of white rust formation.

White rust is non-protective and results in the galvanized surface not being resistant to further corrosion. It impacts asset life, energy consumption, safety, water use and ultimately, production uptime.

Factors contributing to white rust corrosion include water quality (softness and/or alkalinity norms), temperature, pH, stop/start operation, biocide control, passivation procedures and heat load variations.

Industry has tried to mitigate white rust corrosion but results have fallen short of expectations. Given the increasing focus on sustainability, a solution to this problem must be found.



Visual indication of metal passivation

Now there's a Solution from Nalco Water

Because of the impact associated with this critical industry issue for plants utilizing galvanized condenser systems, Nalco Water focused its research efforts on solving the problem. The result is a best-in-class solution that leverages 3D TRASAR technology to inhibit the corrosion of galvanized steel.

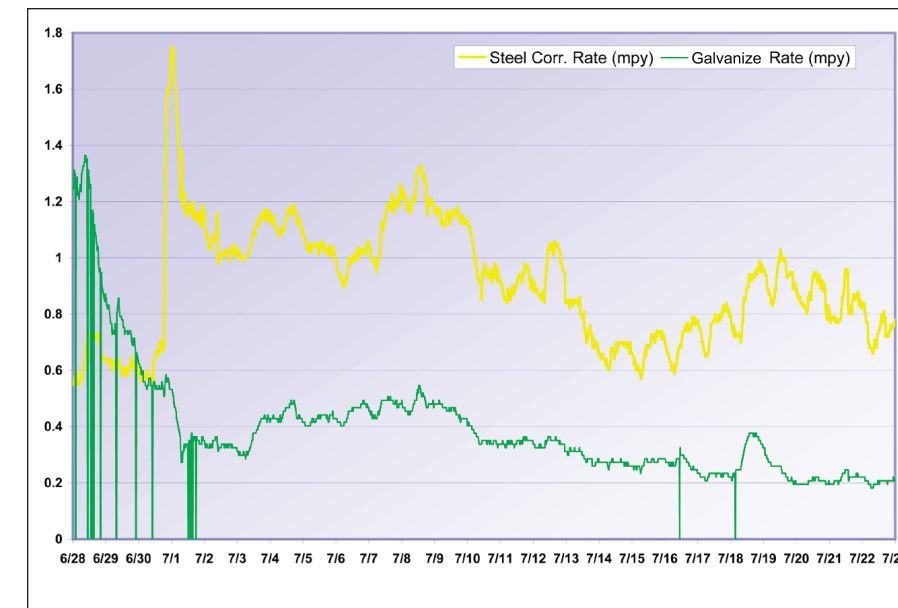
Nalco Water's patented, white rust inhibitor is a synergistic blend of passivation agents, inhibitors and dispersing agents, formulated to minimize white rust corrosion.

Using this program as an integral part of a condenser water management programs can produce the following benefits:

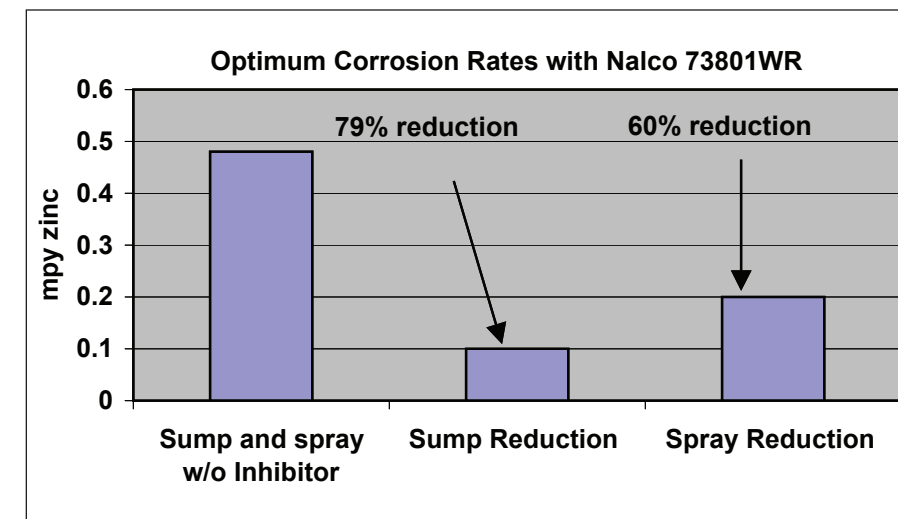
- **Asset protection:** Extend the service life of condenser system components through improved corrosion control
- **Water conservation:** Operate at higher cooling cycles
- **Acid feed reduction/elimination:** Corrosion protection at higher pH ranges
- **Condenser start/stops or weekend shutdowns:** Maintain corrosion protection or reestablish full degree of corrosion protection after shutdown
- **Energy efficiency improvements:** Eliminate heat transfer being impeded by corrosion deposits
- **Continuous collection and management of corrosion performance data**

A best practice corrosion protection program that delivers improved asset life and reduced risk

Nalco Water 73801WR solves the challenge of how to minimize the impact of white rust formation.



Pilot and field testing showing optimum results



Corrosion Inhibition with Nalco Water 73801WR