

## COOLING TOWER TREATMENTS

Arc Water Treatment is continually working to improve the chemicals used in our water treatment programs. In this case, we lead the industry in formulating an improved, cost-effective and more environmentally-friendly product for treating cooling towers. CTSM-2 is a re-formulation of our superb cooling tower treatment, incorporating the best and latest organic ingredients for corrosion and scale inhibition, including dispersants. CTSM-2 has reduced molybdate levels, which makes this product the latest, state-of-the-art formulation and more environmentally friendly. It still uses molybdate as a tracer to make sure that all other ingredients, such as scale inhibitors, corrosion inhibitors and dispersants are at proper levels within your system for maximum protection and efficiency. This change led us to switch how we test for molybdate. We have been using the drop test method for testing molybdate at 4 to 8 ppm levels. The drop test kits are only accurate down to 4 ppm. We will still be testing for molybdate to determine the level of protection present in your system, but at a much lower reading (0.4 - 0.8 ppm) using a hand held electronic device. This device is very accurate down to 0.1 ppm. We have incorporated the latest environmentally friendly corrosion inhibitors and scale inhibitors in our new formulation. Our new formulation also helps prevent white rust from occurring. With a lower pH in our formula, we are able to maintain a lower pH within your system. Higher pH systems can lead to white rust if the system has not been properly passivated. Moreover, with a lower pH formula, the biocides that are used will react better and be more effective at killing bacteria and algae within the system. As proof of its effectiveness, we were asked to return to a customer that had switched water treatment companies. With towers covered by white rust, we used the new CTSM-2 to super-treat the system, and the white rust and accumulated films were cleaned up in just a couple of weeks, as shown in the adjacent 'before' and 'after' pictures.

Overall, we believe we have created a more cost-effective treatment program which will also benefit your cooling tower and the environment. This is another example of how Arc is working for its customers and within its industry to ensure the latest technology and best products are applied to protect your systems. We welcome your inquiries to [arc@arcwater.com](mailto:arc@arcwater.com) or call us at 800-832-3260.