Evapco Engineering Flash



Time to Take a Fresh Look at Solid Water Treatment Chemistry

Condenser water treatment chemistries can be effective in either liquid or solid form. The active ingredients are the same, so let's take a fresh look at solid water treatment chemistry! Solid chemistry no longer means dry, dusty powders that are difficult to handle and dissolve. Recent innovations in solid chemical formulation and feed equipment now provide key advantages over liquid water treatment, including improved handling and safety, reliability, and a reduced carbon footprint.

SAFETY

Solid water treatment chemistry provides additional levels of safety for both personnel and the environment, compared to a liquid chemical treatment program.

Liquid water treatment products typically include a high percentage of water and often add hazardous stabilizers as part of the blending process. In contrast, solid chemistries contain up to 97% active ingredients without the need for these hazardous stabilizers. This means that solid water treatment chemistries are closer to a neutral pH, making them less toxic than the liquid forms of similar products.

Eliminating the water used to blend liquid products results in a substantial reduction in weight. Less weight means less to ship, handle, and store– an important benefit for hard-to-access evaporative cooled equipment and the personnel treating them.

Liquid water treatment chemistry is typically stored in large tanks, drums or pails and requires spill protection, such as a containment pallet or curbing. Solid chemistry is typically packaged in ergonomically friendly cases which provide much easier handling while minimizing the floor space required for storage. Common carriers deliver lightweight boxes of solids that are easy to handle and store. As a result, many solid chemistry feed systems can eliminate the need for supplemental spill containment as well.

RELIABILITY

Some solid chemical programs are able to eliminate the need for the expensive and problematic chemical feed pumps which are typical with liquid treatment programs. By not requiring electrical motors or pumps, solid chemistry eliminates the failure-points of these components such as shocks, lost pump prime and tubing connection failures. Additionally, easier handling and application increases the program effectiveness as it reduces human error. This means that solid chemistries can be fed more reliably with less preventive maintenance and fewer system failures – ultimately ensuring the protection of your valuable asset.

ENVIRONMENTALLY FRIENDLY

The plastic drums and pails associated with liquid chemistries can be expensive to dispose of properly. The environmentally friendly recyclable cardboard boxes used for solid water treatment chemistries remove these concerns and often reduce storage space requirements. Solid water treatment chemistries reduce the freight, handling, storage and disposal costs associated with liquid chemistries while providing a positive impact on the environment.

Recent advancements in solid chemical water treatment have led to feed systems designs that do not require electricity for feed pumps and timers. Therefore no energy is consumed by your water treatment system, further reducing your carbon footprint.

With safer, more reliable, 'Green' technologies- solid water treatment chemistries deserve a fresh look!

For more information, please contact your local EVAPCO Sales Representative!

Jim Pegg

Director Water Systems

EEF #2 December 2012

