



# Jaytech, Inc. E-Newsletter

"A candid conversation about water treatment issues facing today's mechanical engineers."

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## The Many Benefits of Solid Polymer Water Treatments

During the past several years, polymer technology has come to the forefront as an excellent water treatment program option for both heating and cooling applications. During this time, the ability to manufacture various water treatment products in a solid form has also been greatly improved making solid polymer water treatment programs the premier choice for almost every application.



Solid polymer water treatment products for steam boiler systems as well as open recirculating systems are available in standardized one-gallon plastic jars.

## Helpful Links

[www.iia.org](http://www.iia.org)



 American Water Works Association  
The Authority on Water and Wastewater



The 100mm jars may contain polymers for dispersing particles as a stand-alone product or may incorporate other chemicals in the solid form. The myriad of products is vast including: anti-scalants, crystal modifiers, oxygen scavengers, steamline treatments, corrosion inhibitors, sequestrants, dispersants, and microbicides. Best of all, these are all proven chemistries taken directly from our liquid product line, but made solid.

Managers, facility engineers, safety directors, and purchasing agents work together to balance the needs of each facility. Solid water treatment products make this much easier as they meet the demands of each person involved.

Solid water treatment programs incorporate the highest quality and latest chemistries available so the performance, when applied properly, is superior. This advanced program is available at the same cost as traditional liquid water treatment programs. Additionally, the elimination of intense handling and exposure to hazardous, toxic, carcinogenic, or poisonous chemicals creates an exceptionally safe product, one the engineering staff won't mind working around.

A simple cooling tower application currently using acid and chlorine in common quantities should consider CFR 29 and 40:

- 29 CFR 1910 Sub. G, Z. Threshold Limit Values for Employees (Vapors)
- 29 CFR 1910.1200 A Causes Visible Destruction in living tissue
- 40 CFR 261.3 Containment required for chemical liquids
- 40 CFR 302 Spills reportable to the national response center (example: H<sub>2</sub>SO<sub>4</sub>)
- SARA Title III, Section 311,312,313 Tier I or II Reporting (H<sub>2</sub>SO<sub>4</sub>) must report

Solid water treatment products have no threshold limit, require no containment, are non-corrosive, are not sensitizers, and have no reportable quantity values. Additionally, they are not CERCLA, SARA, or DOT reportable.

There are also far less significant advantages to utilizing solid water treatment programs:

- Eliminate odors
- Eliminate a Footprint
- Eliminate drum disposal
- Reduced shipping cost
- Can be shipped in freezing temperatures

Safety directors do not want any quantities of hazardous, corrosive, or flammable materials on-site when there are alternatives. Plant managers generally appreciate the increased efficiency and lowered liability. Facility engineers enjoy working with a water treatment program that is easy to apply, safe to use, and effective. And... the purchasing agent recognizes a higher quality water treatment program at a price equal to that of a traditional liquid water treatment program.

Solid water treatment programs are able to use existing feed and control equipment such as pumps, conductivity controllers, pulse timers, and relays. The solid make-down boards that mount on the wall do require some upfront costs, which are dependant upon the number of boards needed and style.

For more information on solid water treatment programs, contact your local Jaytech representative or contact me at [mjuhl@jaytech.com](mailto:mjuhl@jaytech.com)

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**Thank You!** The Jaytech, Inc. e-newsletter began just over a year ago and subscribership has skyrocketed within the US and abroad! Thank you for providing interesting topics and relevant “insider” articles.

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## Next Issue:

Legionnaire’s Disease Part I.

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## *Jaytech Tip*

*“Jaytech Tip-1” Many times engineers are unaware of the chemicals they are handling. Solid water treatments eliminate handling as well as the possibility of a spill.*

*“Jaytech Tip-2” If you find your engineers are less than excited about chemical testing, a solid polymer program can be implemented and maintained with a minimum of daily attention.*

*“Jaytech Tip-3” Solid water treatment programs can provide you with all the benefits outlined above at the same cost as a traditional liquid program.*

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## Have an idea?

If you have an idea or question you would like more information about, send me e-mail at [mjuhl@jaytech.com](mailto:mjuhl@jaytech.com) and we’ll answer it! Remember, it must be water treatment related and be of interest to other professionals such as you.

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