



TanninTech® Green Boiler Water Treatment Programs Significantly Reduce Fuel Cost

How would you like to reduce the annual fuel cost for your steam boiler by 1 – 5 percent? And at the same time lower your boiler makeup water and sewage discharge volumes, decrease emissions of greenhouse gases, lower program testing times, and reduce softener salt consumption? All without purchasing expensive capital equipment or making dramatic changes to your current boiler water operations.

For over three years now, the Purified Natural Tannins contained in Jamestown's TanninTech® product line have allowed customers in Canada and the United States to operate their fire and water tube steam boilers with significantly higher levels of conductivity without developing troublesome and insulating hardness scale deposits. By increasing boiler water conductivity levels from the traditional ASME guidelines of 2,500 – 3,500 mmhos used today, to upwards of 10,000 mmhos and beyond, customers are able to reduce blowdown rates by 75% or more, and prevent the loss of valuable BTU's to the sewage system. Purified Natural Tannins also act as oxygen scavengers, so additional products such as sulfite can often be eliminated from the program.

In addition, tannins quickly establish a dynamic barrier film for corrosion protection on metal surfaces, thereby reducing oxygen-related corrosion rates for mild steel, copper and even aluminum in treated systems. For this reason, Jamestown's TanninTech products can be used to control deposits and corrosion in the high-efficiency condensing aluminum boilers installed in many office buildings, hospitals and schools today. Our TanninTech products are also OSHA and DOT Non-Hazardous, renewable, biodegradable, and thermally-stable (up to 1,000 psig). They are also approved in food applications where the treated steam contacts food products.

For your convenience, please find enclosed a Computerized Energy Audit of a manufacturing facility operating a natural gas fired, 500-HP fire-tube boiler using Jamestown's TanninTech program while operating at 10,000 mmhos of conductivity in the recirculating water. In this evaluation, energy costs were reduced by 2.32%, makeup water consumption by 11.15%, blowdown volumes by 80%, greenhouse gases by 2.32% and testing times by 30%, for an overall annual savings of \$20,114. Overall five and ten year savings were over \$100,000 and \$200,000, respectfully.

To complete a Computerized Energy Audit for your facility, and learn how our TanninTech products can help you save on boiler fuel and operating expenses, please call your local Jamestown Representative directly, or contact us at one of the phone numbers or email addresses listed below. Thank you for your time, and we look forward to talking with you soon.

Sincerely,
Jamestown Technologies Division
Azure Water Services, LLC

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“Purified Tannins” provided by the Tannin Guys®

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