



ChemTreat's TITAN360™ is a ground-breaking, all-in-one product designed to protect your critical assets throughout the entire cycle of steam generation.

Why TITAN360™?

Traditional boiler treatment requires the dosage and monitoring of multiple separate products: a dispersant, oxygen scavenger, and neutralizing amine. Treating a boiler in this manner presents a host of challenges, including:

- Storage and dosing equipment, inventory management, and time associated with on-site mixing or diluting of products
- Interaction with large volumes of multiple chemicals and management of costly effluent discharge containing phosphates
- Higher water usage to offset the high conductivity contribution of traditional inorganic treatments

TITAN360™ is an all-in-one mixture of neutralizing amines, an organic corrosion inhibitor and a dispersant, effectively treating the water-steam cycle without multiple chemical feed points. With a simple test kit, applying TITAN360™ provides peace of mind that the proper treatment level is maintained. TITAN360™ is a safe, low toxicity, easy-to-apply alternative to the traditional multi-chemical boiler treatment program.

- Innovative, low conductivity organic formulation proven to reduce water usage and energy consumption
- Excellent corrosion protection of the water-steam system with a filming inhibitor, reducing the need for an oxygen scavenger
- Simplified application decreases service time and equipment required
- Improved heat transfer through the combined action of dispersant & filming amine, which maximizes boiler performance





Proven Results

Reduced chemical usage and simplified boiler treatment with TITAN360™

A bottling plant in Tucson, Arizona fed a two-product boiler treatment to its 200 HP boiler, operating with softened makeup water and a condensate return of 75%. This treatment, which consisted of a sulfite-polymer blend and separate amine feed, involved a high usage of amines and a significant level of service time tied to monitoring tests. The plant switched to TITAN360™, with a dosage proportional to makeup into the deaerator. Both chemical usage and service time decreased dramatically. Monitoring residual filming amines with the simple TITAN360® test kit reduced service time.

TITAN360™ minimizes scale and corrosion fouling in boiler system

A municipal housing complex in York, Pennsylvania, provided steam to heat buildings via three 29-PSIG firetube boilers. The system, which has a condensate return of 65-90%, had significant problems with corrosion and scale. Additionally, it ran only 5-6 months and shut down for the remainder of the year without being drained or treated. Upon restart, it took a month to remove corrosion and scale buildup. Switching to TITAN360™ offered protection to the off-line boilers—corrosion & scale formation declined dramatically. The dispersant in TITAN360™ effectively cleaned the existing scale and improved the condition of the boilers within just a few weeks.

Benefits of TITAN360™ Technology:

- **Organic formulation** adds lower conductivity in feedwater, allowing for higher cycles of concentration and reducing the potential for carryover
- **Filming & neutralizing inhibitor** promotes a compact and homogeneous magnetite film, reducing the need for an oxygen scavenger
- **Improved heat transfer** through the combined action of filming inhibitor and dispersants, which lift and clean existing deposits and reduce the potential for under deposit corrosion
- **Peace of mind** that sufficient levels of product are being fed, with a simple test kit that measures residual filming amine in the system
- **Simplified application** into one dosage point removes the need for multiple feed pumps

