

## What is 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.

ChemTreat's TITAN360™ is a ground-breaking, all-in-one product designed to treat a wide range of boiler systems in many different industries.

- 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



*ChemTreat cannot guarantee 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.

Results are examples only. They are not guaranteed. Actual results may vary.

### 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 & dispersants, which lift & clean existing deposits & 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

