

ZI-CHEM 11A1 Steam Boiler Scale Control

HIGHLIGHTS

ZI-CHEM 11A1 deposit inhibitor is an essential component of the ZI-TECHASIA boiler efficiency management program.

This product is based on pure grade tri-sodium phosphate used to prevent the formation of boiler scale deposits by precipitating soluble calcium hardness from boiler water. It is particularly applicable for high pressure boilers utilizing congruent or coordinated phosphate water treatment programs. When used in conjunction with suitable polymer dispersants and sequesterants, this reaction ensures that these contaminants do not precipitate on the tubes and interrupt heat transfer.

TYPICAL PROPERTIES

- Appearance: Colorless to white powder
- Specific gravity: 0.9 – 1.1
- pH (1% sol): 11.5 – 13.5
- Flash point: None
- Freeze Point: None

PRIMARY APPLICATIONS

The primary feed points for steam boilers are direct to the boiler drum via a stainless steel injection quill.

FEEDING & CONTROL

ZI-CHEM 11A1 should be dissolved in a site mixing tank then injected to boiler or pre-boiler added using a chemical metering pump with liquid end constructed of suitable materials. These include PVC, polypropylene, viton, Teflon and stainless steel.

The dosage will depend on the operating conditions and the chemistry of the water being treated.

Your ZI-TECHASIA technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis.

APPROVAL

FDA acceptable in accordance with 21 CFR Section 173.310- Boiler water additive.

THE BENEFITS

- Reduced total fuel cost
- Increased steam production
- No off-line cleaning required
- Extended equipment life
- Suitable for high pressure boiler

COMMON APPLICATIONS

- Petrochemical
- Oil Refinery
- Power generating facility
- Food Industry

PACKAGING

- 25kg open top pails with sealed lid
- 25kg nylon bags

HANDLING & SAFETY

ZI-CHEM maintains a database of material safety data sheets (MSDS) on all our products.

These contain health & safety information to assist in the safe and appropriate chemical handling, ensuring the protection of personnel. offer detailed site surveys to review your situation

