

## ZI-CHEM 11B0 Steam Boiler Scale Control

### HIGHLIGHTS

ZI-CHEM 11B0 deposit inhibitor is an essential component of the ZI-TECHASIA boiler efficiency management program.

This product is pure grade tri-sodium phosphate in convenient solution form. It is 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: Light hazy liquid
- Specific gravity: 1.0 – 1.2
- pH (neat) 11.0 – 12.0
- Flash point: None
- Freeze point: -2.8°C

### 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 11B0 should be added to a chemical dosing tank, and if required, diluted with water, 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.

Halal certification by MUI.

### THE BENEFITS

- Reduced total fuel cost
- Increased steam production
- No off-line cleaning required
- Extended equipment life
- Easy handling due to its liquid form
- Suitable for high pressure boiler

### COMMON APPLICATIONS

- Petrochemicals
- Oil refinery
- Power generating facilities
- Food Industries

### PACKAGING

- 25kg pails
- 200kg drums
- 1,000kg IBC containers

### HANDLING & SAFETY

ZI-TECHASIA maintains a database of safety data sheets (SDS) on all our products. These contain health & safety information to assist in the safe and appropriate chemical handling, ensuring the protection of personnel.

