

ZI-CHEM 1140 Steam Boiler Scale Control

HIGHLIGHTS

ZI-CHEM 1140 is an essential component of the ZI-TECHASIA boiler efficiency management program.

This product is used in conjunction with alkaline-phosphate-polymer program as part of a comprehensive scale control program for steam boilers. ZI-CHEM 1140 contains a concentrated organic iron sequestrant which entirely solubilizes iron in boiler water, reducing iron oxide and iron-bound sludge deposits. This modified natural organic also effectively coats magnesium and calcium sludges, helping to prevent agglomeration and facilitating easy removal via blowdown, thereby maximizing heat transfer and preventing increases in fuel consumption.

ZI-CHEM 1140 functions with threshold reaction abilities ensuring that the crystal distortion function occurs exactly when it is required- at the time of initial precipitation.

TYPICAL PROPERTIES

- Appearance: Dark brown liquid
- Specific gravity: 1.1 – 1.3
- pH (neat) 5.0 – 6.5
- Freeze point: 0 °C
- Flash point: None

PRIMARY APPLICATIONS

The primary feed points for boilers are the feedwater tank, deaerator storage, feedwater line, or direct to boiler drum. It is best fed on a continuous basis the feedwater.

FEEDING & CONTROL

ZI-CHEM 1140 should be 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, and also USDA approvals for G5 & G6 applications.

THE BENEFITS

- Reduced total fuel cost
- Increased steam production
- No off-line cleaning required
- Extended equipment life

COMMON APPLICATIONS

- Automotive industries
- Packaging facilities
- Pharmaceutical
- Food Industries
- Pulp & Paper processing
- Timber processing

PACKAGING

- 25kg pails
- 240kg drums
- 1,000kg IBC and containers

HANDLING & SAFETY

ZI-TECHASIA 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.

