

ZI-CHEM 1123

Steam Boiler Scale Control

HIGHLIGHTS

ZI-CHEM 1123 is an essential component of the ZI-TECHASIA boiler efficiency management program.

This product is a concentrated scale deposit control agent based on a thermally stable phosphino-carboxylic acid polymer used in steam boilers. This product performs particularly for scale precipitation based on phosphate, iron, calcium and silica. It can prevent dense deposits adhering to critical heat exchange surfaces and thereby maximizing heat transfer and preventing increases in fuel consumption.

ZI-CHEM 1123 functions with threshold reaction abilities ensuring that the crystal distortion function occurs exactly when it is required- at the time of initial precipitation. ZI-CHEM 1123 has been thoroughly tested proven thermally stable up to 1,200 psig.

TYPICAL PROPERTIES

- Appearance: Clear colorless liquid
- Specific gravity: 1.0 – 1.2
- pH (neat) 3.5 – 5.5
- Freeze point: -1 to -3 °C
- Boiling point: 103 °C

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 1123 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

The components of ZI-CHEM 1123 are FDA acceptable in accordance with 21 CFR Section 173.310- Boiler water additive, and also USDA approvals for G5, G6, G7.

THE BENEFITS

- Reduced total fuel cost
- Increased steam production
- No off-line cleaning required
- Extended equipment life
- Suitable for high pressure boiler up to 1,200 psig

COMMON APPLICATIONS

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

PACKAGING

- 25kg pails
- 200kg 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.

