

ZI-CHEM 1100 Steam Boiler Scale Control

HIGHLIGHTS

ZI-CHEM 1100 is an essential component of the ZI-TECHASIA boiler efficiency management program.

This product is a concentrated metals sequestrant and chelating agent that is used as part of a comprehensive scale control program that includes polymer dispersants and other components.

ZI-CHEM 1100 complexes deposit forming cations such as iron oxide, calcium, magnesium and copper. This extends the solubility of these metal ions reducing the risk of dense deposits adhering to critical heat exchange surfaces without the problem side effects of problematic sludges. As a result, heat transfer surfaces are kept clean and heat transfer is maximised and fuel consumption is kept low as a result.

TYPICAL PROPERTIES

- Appearance: Clear light yellow liquid
- Specific gravity: 1.20 – 1.35
- pH: 12.0 – 14.0
- Solubility in Water Unlimited
- Flash point >100 °C

PRIMARY APPLICATIONS

The primary feed points for boilers are the feedwater line downstream of the feedwater pump, or direct to boiler drum. It is best fed on a continuous basis the feedwater. Because this product does not react stoichiometrically with feedwater impurities, stringent control is not essentially required.

FEEDING & CONTROL

ZI-CHEM 1100 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 additives.

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

- 25L pails
- 220L drums
- 1,000L IBC's or in bulk

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.

