

ZI-CHEM 11F0

Steam Boiler Scale Control

HIGHLIGHTS

ZI-CHEM 11F0 is a highly effective scale control agent based on a blend of propriety synthesized polymers, acrylic copolymers and solvents. It is designed for use in steam boiler systems to specifically control silica scale deposition from colloidal and soluble silica.

In situations where the feedwater silica levels are high the addition of ZI-CHEM 11F0 allows silica levels to increase up to 300 mg/L without risk of scale deposition. As the result total blowdown can be reduced.

ZI-CHEM 11F0 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 11F0 has been thoroughly tested proven thermally stable up to 1,200 psig.

TYPICAL PROPERTIES

- Appearance: Clear dark brown aqueous liquid
- Specific gravity: 1.1 – 1.3
- pH (neat) 4.0 – 5.0
- Boiling point: 100 °C
- Solubility in water: Complete

PRIMARY APPLICATIONS

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

FEEDING & CONTROL

ZI-CHEM 11F0 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. Normal feed rates are between 25 – 50mg/L in the boiler. Your ZI-TECHASIA technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis. In addition, the ratio of OH alkalinity to silica must also be maintained in accordance with recommendations from ZI-TECHASIA

APPROVAL

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
- Food Industries
- Pharmaceutical
- Pulp & Paper processing
- Timber processing

PACKAGING

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

