

ZI-CHEM 1191 Steam Boiler Scale Control

HIGHLIGHTS

ZI-CHEM 1191 deposit inhibitor is an essential component of the ZI-TECHASIA boiler efficiency management program.

This product is pure grade di-sodium phosphate 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: Free flowing white powder
- Specific gravity: 1.12 – 1.14
- pH (1.0% soln): 7.5 – 8.5
- Solubility 10% at 24 °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 1191 should be dissolved in a site mixing tank 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, and USDA G5 & G6 food industry applications.

THE BENEFITS

- Reduced total fuel cost
- Increased steam production
- No off-line cleaning required
- Extended equipment life
- Suitable for high pressure boiler

COMMON APPLICATIONS

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

PACKAGING

- 25kg open top pails with sealed lid
- 25kg nylon bags

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.

