

ZI-CHEM 1170 Steam Boiler Scale Control

HIGHLIGHTS

ZI-CHEM 1170 is an essential component of the ZI-TECHASIA boiler efficiency management program.

This product is a concentrated scale deposit control agent based on polyphosphate used in boilers, evaporators, protein manufacturing, milk processing & pharmaceuticals. The phosphate reacts with hardness, organics and other contaminants and initiates a controlled precipitation or chelating & sequestering reaction.

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: Clear colorless to light amber liquid
- Specific gravity: 1.25 – 1.40
- pH (neat) 10.0 – 12.0
- Freeze point: -6°C
- Boiling point: 100°C

PRIMARY APPLICATIONS

The primary feed point for steam boilers is continuous direct to the boiler steam drum via a stainless steel injection quill. Alternate location is the feedwater line, but this is not recommended for boilers.

FEEDING & CONTROL

ZI-CHEM 1170 should be 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 1170 are FDA acceptable in accordance with 21 CFR Section 173.310- Boiler water additive.

THE BENEFITS

- Not precipitate on the tubes when used in conjunction with suitable polymer dispersants and sequesterants.
- Interrupting heat transfer.

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.

