

ZI-CHEM 12C0

Steam Boiler Corrosion Inhibitor

HIGHLIGHTS

ZI-CHEM 12C0 is an advanced corrosion control additive used in hot water and steam boiler water systems. It is based on a selected blend of mimosa tannins. Mechanisms of corrosion control include reacting with oxygen, and also the formation of a complex iron tannate film, which is highly protective against corrosion.

ZI-CHEM 12C0 can also prevent caustic cracking in some boilers. These properties mean this is often the product of choice if boilers are off line in a cooled wet storage condition. These properties mean this is often the product of choice if boilers are off line in a cooled wet storage condition.

TYPICAL PROPERTIES

- Appearance: Dark brown to black liquid
- Specific gravity: 1.0 – 1.2
- pH (neat) 4.5 – 6.0
- Freeze point: 0°C
- Flash point (PMCC) None

PRIMARY APPLICATIONS

The primary feed point for steam boilers is continuous to the deaerator storage vessel via PVC or stainless steel injection valve. If there is no deaerator, this product can be fed to the boiler feedwater tank. Alternate location is the feedwater line.

FEEDING & CONTROL

ZI-CHEM 12C0 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. The normal dosage of treatment is regulated to maintain a residual in the boiler.

Your ZI-TECHASIA technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis.

APPROVAL

The very low toxicity ZICHEM 12C0 has resulted in the following approvals for the use in food processing applications: FDA 21CFR §173.310, 184.1097, GRAS; 9CFR §318.7; BATF 27CFR §240.1051; FEMA GRAS; and AQIS approval in Australia. These all relate to steam boiler applications in food industry where additives in steam or water may contact edible products.

THE BENEFITS

- Avoid unscheduled shutdown due to corrosion problem in the boiler, steam and condensate systems.
- Provide extra protection during wet lay up period
- Extended equipment life.
- Suitable for food industries

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

