

## ZI-CHEM 12D0 Steam Boiler Corrosion Inhibitor

### HIGHLIGHTS

ZI-CHEM 12D0 corrosion inhibitor is an essential component of the ZI-TECHASIA maintenance protection program of the boiler and after boiler systems.

ZI-CHEM 12D0 is a 4% concentration solution of hydroquinone used to chemically remove oxygen and form a passivating film on metal surfaces throughout steam generating systems.

ZI-CHEM 12D0 has the ability to passivate metal surface through the formation of magnetite and cuprous oxide films, it is also able to minimize iron and copper deposits in the boiler by reducing these metals to their more soluble ferrous and cuprous forms.

### TYPICAL PROPERTIES

- Appearance: Clear light to amber liquid
- Specific gravity: 1.00 – 1.04
- pH: 3.0 – 6.5
- Vapour Pressure: 18mm Hg
- Flash point (PMCC): None

### PRIMARY APPLICATIONS

The primary feed point for steam boilers is continuous to the deaerator storage vessel via stainless steel injection quill. Alternate location is the feedwater line.

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

### FEEDING & CONTROL

ZI-CHEM 12D0 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 feedwater, boiler or condensate.

### APPROVAL

Unlike other similar treatment products, the breakdown products of ZI-CHEM 12D0 are only CO<sub>2</sub> and do not include any nitrogen components that can yield ammonia.

### THE BENEFITS

- Provide corrosion protection to the after boiler sections of the system.
- Extended equipment life
- Provide corrosion protection to the after boiler sections of the system.
- Easy handling due to its liquid form
- Low toxicity compare to other conventional oxygen scavenger

### COMMON APPLICATIONS

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

### PACKAGING

- 25kg pails
- 200kg drums
- 1,00kg 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.

