

## ZI-CHEM 1646

### Steam Boiler Scale & Corrosion Control

#### HIGHLIGHTS

ZI-CHEM 1646 is an essential component of the ZI-TECHASIA boiler efficiency and plant maintenance management program.

This product is designed as a stand-alone treatment program. It is comprised of a high performance blend of scale and corrosion inhibitors, including thermally stable polymer dispersants, metals sequesterants, neutralizing amines, organic sludge conditioners and antifoam. This is coupled with a blend of polyphosphates which are beneficial where there is hardness is present in the feedwater.

In addition, ZI-CHEM 1646 includes the corrosion protection capabilities of rapid reacting catalysed sulphite oxygen scavenger, while the blend of neutralizing amines buffers the feedwater and neutralize carbonic acid in the steam and condensate lines.

#### TYPICAL PROPERTIES

- Appearance: Clear to Slightly Hazy Colorless to Yellow Liquid
- Specific gravity: 1.00 – 1.15
- pH (neat) 12.0 – 14.0
- Freeze point: -5 to -8°C
- Boiling point: 100°C

#### PRIMARY APPLICATIONS

The primary feed points for ZI-CHEM 1646 are the feedwater tank, deaerator storage or feedwater line. It is best fed on a continuous basis the feedwater.

#### FEEDING & CONTROL

ZI-CHEM 1646 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. Your ZI-TECHASIA technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis.

#### PRODUCT APPROVAL

FDA acceptable in accordance with 21 CFR Section 173.310- Boiler water additive.

#### THE BENEFITS

- Reduced total fuel cost
- Increased steam production
- No off-line cleaning required
- Extended equipment life
- Easy handling with one drum treatment product

#### COMMON APPLICATIONS

- Automotive industries
- Packaging facilities
- Pharmaceutical
- Food Industries
- 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.

