

# Product Technical Data

## AQUA-SHIELD 620 Steam Boiler Scale Control

### HIGHLIGHTS

AQUA-SHIELD 620 is an essential component of the AQUATEC boiler efficiency management program. It is designed to prevent dense deposits adhering to critical heat exchange surfaces and thereby maximising heat transfer and preventing increases in fuel consumption.

This product is comprised of a high performance blend of scale inhibitors, including thermally stable polymer dispersants, metals sequesterants, organic sludge conditioners and antifoam.

This provides a solubilizing program, where potentially scale forming contaminants are held in solution and dispersed; avoiding the sludge problems often associated with phosphate precipitation programs.

AQUA-SHIELD 620 has been thoroughly tested proven thermally stable up to 1,200 psig.

### TYPICAL PROPERTIES

- Appearance: Dark brown liquid
- Specific gravity: 1.0 – 1.2
- pH (neat) 12.0 – 14.0
- Freeze point -2.2°C
- Boiling point 100°C

### PRIMARY APPLICATIONS

The primary feed points for AQUA-SHIELD 620 are the feedwater tank, deaerator storage or feedwater line. It is best fed on a continuous basis the feedwater.

### FEEDING & CONTROL

AQUA-SHIELD 620 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 AQUATEC technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis.

### PRODUCT REGISTRATION

AQUA-SHIELD 620 is registered to the NSF Nonfood Compounds Registration Program under Category Code G6 (Boiler treatment products – all food processing areas/food contact).

FDA acceptable in accordance with 21 CFR Section 173:310- Boiler water additive.

Halal certification by MUI-Singapore.

### THE BENEFITS

- Reduced total fuel cost
- Increased steam production
- No off-line cleaning required
- Extended equipment life
- Suitable for high pressure boiler up to 1,200 psig

### 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

AQUATEC 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.

