

# Product Technical Data

## AQUA-SHIELD 320 Steam Boiler Corrosion & Scale Control

### HIGHLIGHTS

AQUA-SHIELD 320 liquid corrosion inhibitor is a solution of pure alkali. It is used to raise the pH of feedwater and maintain the alkalinity of boiler water.

This is an essential component of the AQUATEC boiler plant preventative maintenance program to prolong the life of the boiler plant by minimizing corrosion thereby prolonging plant life and reducing maintenance costs. It is also part of the efficiency management components by ensuring scale deposition is minimized on critical heat exchange surfaces.

Feedwater pH adjustment is needed to control corrosion. Adequate boiler water alkalinity is required to cause precipitation of calcium and magnesium hardness as the desired sludges and to prevent corrosion.

### TYPICAL PROPERTIES

- Appearance: Clear to hazy white liquid
- Specific gravity: 1.4 – 1.6
- pH (neat) 12.0 - 14.0
- Freeze point -12.2°C
- Flash point: None

### PRIMARY APPLICATIONS

AQUA-SHIELD 320 should be metered continuously as a solution or to the preboiler section or directly to the boiler. This product may be mixed with other boiler water treatment chemicals.

### FEEDING & CONTROL

AQUA-SHIELD 320 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 AQUATEC technical field specialist will recommend the most appropriate dosage for your particular application on an ongoing basis.

### PRODUCT REGISTRATION

AQUA-SHIELD 320 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.

### THE BENEFITS

- Avoid unscheduled shutdown due to corrosion problem in the pre boiler and boiler systems.
- Reduced total fuel cost
- Increased steam production
- Extended equipment life.
- Suitable for food industries
- Easy handling due to its liquid form

### 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

AQUATEC maintains a database of safety data sheets (SDS) on all our products. These contain health & safety information to assist in the safe and appropriate chemical handling, ensuring the protection of personnel.

