

# BOILER AID-382

## SIMPLICITY LIQUID ULTRA-CONCENTRATED ALL N ONE BOILER WATER TREATMENT - SILICATE



### PRODUCT APPLICATION GUIDE

**BOILER AID-382** a 90% active Ultra-Concentrated All-N-One Poly-Silicate based Steam Boiler Treatment.

**BOILER AID-382** reduces corrosion from dissolved oxygen entrained in boiler feed water. When maintained in its proper control range **BOILER AID-382** alleviates the significant corrosion problems and failures associated with oxygen pitting in boilers. **BOILER AID-382** based on proven poly-silicate & filming amine chemistries forming a molecular bond with iron to defuse corrosive oxygen from the metal surface.

**BOILER AID-382** is a more efficient boiler water treatment unlike Sulfite based treatments because it does not require gross amounts of oxygen scavenger compounds and is a direct film forming corrosion inhibitor.

**BOILER AID-382** is far more resilient vs. competitive Sulfite based products in that it does not require copious amounts of chemical product – sulfite reactions are 10:1 vs. dissolved oxygen!

**BOILER AID-382** contains polymeric anti-scalants & dispersants to control hardness scaling potential. Soft water make-up and high quality condensate are always preferable but when there is hardness leakage to the boiler, **BOILER AID-382** will prevent short-term build-up of heat transfer robbing Calcium salts.

**BOILER AID-382** will disperse accumulated particulate scaling salts in boiler. **BOILER AID-382** has the ability to disperse and remove Phosphate, Sulfate and Iron Oxide corrosion deposits that may form or have accumulated in the lower flow areas of the boiler.

**BOILER AID-382** and its blend of volatile filming amine components reduce condensate and steam line corrosion.

**BOILER AID-382** acceptable for Food, Drug & Cosmetic plant applications as governed by FDA.

**BOILER AID-382** eliminates the handling nuisance encountered with handling the irritating dust from powdered Sulfites. For individuals who may be sensitized and reactive to Sulfite compounds in general, **BOILER AID-382** relieves the issue since they never come in contact with the material.

### Application & Control

- Generally, **BOILER AID-382** is applied to the storage section of the De-aerator or injected directly into the boiler feed water tank (below the water line). A good starting point application rate for steam boilers concentration would be 240-360 ppm (2 to 3 pounds) of **BOILER AID-382** per 1,000 gallons of volume. Residual poly-silicate control in the boiler water is generally 30-50 ppm. "P" Alkalinity values of 300 ppm or more and/or minimum Free Hydroxide "OH" values of 200 ppm maintained in the boiler water. Condensate return pH control of 7.5-9.0.
- Product Control accomplished using one of the following: Poly-Silicate colorimetric test kit or any similar Silica/Silicate Test Method along with colorimetric pH testing of condensate return (Phenol or Cresol Red).

### PHYSICAL PROPERTIES:

Color/Form: Amber Liquid  
 Odor: Characteristic  
 Density: 1.2+/-  
 pH of 1% Solution = <12  
 Freeze Point: <32F+/-  
 Freeze/Thaw: Full Recovery

GHS CODE: Irritant



DOT Class:

**NON REGULATED**

**3 HEALTH**

**0 FLAMMABILITY**

**1 REACTIVITY**

**C PERSONAL PROTECTION**

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