

BWT PPA 223

CONDENSATE TREATMENT

- Reduces condensate corrosion through tailored treatments.
- Reduce maintenance cost.
- Improves boiler system reliability.
- Reduces feedwater iron and copper levels.
- Formulations available for FDA regulated system.

DESCRIPTION AND USE

BWT PPA 223 is a customized blend of water soluble neutralizing amines designed to meet the needs of each specifically neutralize acididic condensate and protect all parts of the condensate system.

APPLICATIONS

BWT PPA 223 inhibits corrosion in condensate system by neutralizing acidic species and elevating pH to levels which are not aggressive to mild steel and copper. Iron levels in the condensate are reduce and equipment life and reliability are increased. Carbon dioxide is a major cause of corrosion in condensate results from the breakdown of feedwater carbonate alkalinity in the boiler when steam condenses, the gas dissolves in the water phase to form carbonic acid. Carbonic acid depresses the pH of condensate, resulting in significant metal loss. The damage typically appears as general thinning and/or grooving along the bottom walls of horizontal pipes. If the attack is severe enough, failures will occur in piping, vessel and heat exchange equipment. This result in costly equipment replacement, maintenance, and production losses. Furthermore, iron and copper returned to the boiler from condensate cause deposition in boilers, which is another costly problem. Corrosion in steam condensate system is controlled by applying volatile neutralizing amines.

APPLICATION AND DOSAGE

Feed point BWT PPA 223 may be fed to the deaerator storage section, feedwater line, stem drum, or steam header. In some system, supplemental feed points may be required to provide optimum system protection. This is especially true in complex multi pressure steam pressure steam system with flash tanks and high alkalinity boiler feed water.

Feed rate. Control is based on condensate pH, iron levels in the condensate, coupon corrosion rates or a combination of all three.

Dilution. Use good quality condensate or demineralized water to dilute to a convenient feeding strength.

Equipment. Mild steel mix tanks and pumps are acceptable for storing, diluting and injecting BWT.

PACKAGING

The product is available in sealed packs of 30 liters.