Condensate pH Test Procedure

Note: It is imperative that the sample consists of returned condensate only, and has not been mixed with other feed water.

Procedure:

Test strips:

Simply dip the pH strip in the solution to be tested and match the color on the comparator.

pH Meter:

1. Dip the meter (probe) in the solution to be tested, up to immersion level.
2. Stir gently and wait a few seconds.
3. Record the pH reading.

pH Meter Precautions:

1. Always cool the sample.
2. Condition the cell with the sample to be tested.
3. Make sure the pH meter is properly calibrated to pH 7.

Recommended Parameters:

Due to changes in feed water and boiler operating conditions, these recommendations must be considered as best approximations.

Steam boiler condensate.....7.5 to 8.5

Interpretation of Analytical Results:

Low pH levels indicate:

Not enough volatile neutralizing amine in system.

High carbonate and bicarbonate alkalinity levels increase carbon dioxide content in the steam, resulting in higher amine demand. Reduce alkalinity levels in the boiler.

High pH levels indicate:

Overfeed of volatile neutralizing amines.

Consult your ENERCON Technical Field Representative.

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