

OH Alkalinity Test Procedure

Barium Chloride Method

Procedure:

OH alkalinity:

1. Take a 25 ml. sample.
2. Add 1 ml. barium chloride **EC-R0711** and shake to mix thoroughly.
3. Add 2 drops phenolphthalein **EC-R0638**; pink colour will develop.
4. If no pink colour develops, there is no OH alkalinity present.
5. Add hydrochloric acid **EC-R0724**, one drop at a time, until pink colour disappears.
Number of drops X 10 = ppm OH alkalinity.

Precautions:

1. Always filter the sample.

Recommended Parameters:

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

Steam boilers:.....OH alkalinity 200 to 600 ppm.

Interpretation of Analytical Results:

Low OH alkalinity levels indicate:

Not enough chemical treatment in system.

Hardness break-through from the softener.

High hardness levels in feed water require increased dosages of an **ENERCON** caustic based chemical treatment.

High OH alkalinity levels indicate:

Insufficient blow-downs.

Overfeed of chemical treatment.

Consult your **ENERCON** Technical Field Representative.

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