

Hardness Test Procedure

Procedure:

1. Take a 25 ml. sample.
2. Add 5 drops of hardness buffer **EC-R0619**.
3. Add 1 dipper full of hardness indicator **EC-R0620**.
4. Red colour will appear (if colour is blue, there is no hardness present).
5. Add 1 drop at a time of hardness reagent **EC-R0683** until blue colour appears.
6. Number of drops X 10 = ppm hardness.

Precautions:

1. Always filter the sample.
2. High alkalinity and high phosphate levels may interfere with this test.

Recommended Parameters:

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

Steam boilersZero hardness

Interpretation of Analytical Results:

Presence of hardness in boiler water indicates:

Hardness break-through from the softener.

In the absence of a softener and if on a phosphate cycle water treatment program, an increase in feed of the **ENERCON** phosphate based chemical is required.

In the absence of a softener and on a carbonate cycle water treatment program, an increase in feed of the **ENERCON** caustic based product is required.

Consult your ENERCON Technical Field Representative.

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