

Standard and Neutralized TDS Test Procedure

Procedure:

1. Select the proper TDS range on your meter if applicable.
2. Thoroughly rinse the electrode cup with the solution to be tested.
3. Fill the electrode cup to the ring.
4. Wait for temperature compensation to stabilize.
5. Press and hold the read button and record the TDS in ppm.

Precautions:

1. Allow time for cold and hot samples to activate the temperature compensation - approximately 1 second for every 5°C that the sample is different from the instrument temperature.
2. Do not immerse the tester in water.
3. Wipe the sample cup clean after each use.
4. In alkaline samples, the hydroxide ion has a disproportionately high conductance in comparison to other ions present. Thus, it must be neutralized by the use of a TDS neutralizing solution.

Procedure for Neutralized TDS Test:

1. Take a 25 ml. sample.
2. Add 2 or 3 drops of phenolphthalein indicator **EC-R0638**.
3. Pink colour will appear.
4. Add the TDS neutralizing powder **EC-R1310** one dipper at a time, thoroughly shaking the test vial between each dipper, until all the pink colour has disappeared.
5. Rinse and fill the electrode cup of the TDS meter with this colourless solution.
6. Record the Neutralized TDS in ppm.

Recommended Parameters:

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

Steam Boilers: TDS2500 - 3000 ppm.
Neutralized TDS2000 - 2500 ppm

Interpretation of Analytical Results:

If TDS is higher than recommended levels, increase blowdown frequency

If TDS is lower than recommended levels, decrease blowdown frequency

If TDS is substantially higher than the neutralized TDS, and the neutralized TDS is within the above parameters, reduce chemical feed.

Consult your ENERCON Technical Field Representative.

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