

OP-DC Phosphonate Test Procedure

Procedure:

Note: It is advisable to perform a blank with make-up water to which no treatment has been added, by following steps 1 to 7 below. The number of drops used in step 7 for the blank, typically 2 to 3 drops, should be subtracted from the total number of drops used for the sample.

1. Take a 25 ml. sample.
2. Add the following:
 - 1 drop Thiosulfate N/10 **EC-R0697**
 - 1 level dipper Phosphonate Indicator Powder **EC-R0810**
3. Swirl the sample tube to mix thoroughly.
4. Add 3 drops **EC-R0820** pH Indicator; sample will turn blue.
5. Adjust the pH to between 2.5 and 3.0 by adding Sulphuric Acid **EC-R0686** until solution changes from blue to yellow.
6. Add Titrating solution **EC-R0815** one drop at a time, swirling and counting after each drop until a permanent purple to pink endpoint appears.
7. Record the number of drops and subtract the number of drops obtained in the blank.

Recommended Parameters:

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

Cooling Towers and Evaporative condensers 12 to 18 drops

Interpretation of Analytical Results:

Results over 18 drops reduce chemical feed or increase bleed as required per test results.

Results under 12 drops increase chemical feed or decrease bleed as required per test results.

Consult your ENERCON Technical Field Representative.

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