

Orthophosphate
0, 5, 10, 20, 30, 40 PPM

AE301

Directions for Use:

1. Take 2.5 ml of cooled, filtered and prepared* sample using syringe in the 10 ml test jar provided.

2. Add equal volume of OP 1

3. Dilute to 10 ml mark with DM / clear colourless phosphate free water.

4. Mix the contents well. Keep for 5 minutes. This is now "S".

5. In another test jar fill 10 ml DM water. This is now "B".

6. Read the ppm Orthophosphate as follows:

a) Place the test jar "B" on the yellow circle and test jar "S" on the white circle next to each other on the colour comparison chart.

b) View from the top of the comparator test jar to compare the sample colour.

c) Match the colours by moving the test jar from one circle to another.

d) Read the ppm Orthophosphate as PO₄ after arriving at the correct match.

*** Preparation of Sample**

1. Water pH should be preferably neutral. Neutralize the highly alkaline sample to phenolphthalein end point before testing.

2. In case of sample having colour tint; take 50 ml of this sample, add 1-2 gram of OP2 and boil till contents turn colourless. Cool and make up to 50 ml using distilled water. Filter through No. 42 paper and proceed for estimation of phosphate. If the sample cannot be decolorized, do the following:

a) Take the original water sample in the comparator tube and read the ppm Phosphate as per the procedure in No. 6 above.

b) This ppm reading has to be subtracted from the reading of the tested sample.

c) Determine chloride in the sample. If necessary, dilute the sample to maintain the chloride to less than 75 ppm Chloride.

