

## TEST SET - P-ALKALINITY - Product Code 11901

### CARETREAT 3 BOILER

1. Completely fill the plastic measuring tube with boilerwater. Pour the contents of the tube into the mixing bottle.
2. Fill mixing bottle with distilled water up to 15 ml.
3. Add the contents of one Phenolphthalein indicator Powder Pillow and swirl to mix.
4. A pink colour will appear. (If the water remains colourless the P-Alkalinity is zero)
5. Add the Sulfuric Acid Standard Solution drop by drop to the contents of the mixing bottle, swirling the mixing bottle constantly. Count the drop until the test solution becomes colourless. (One pipette filled to the 1.0 ml mark equals 15 drops.)

The recommended P-Alkalinity for boilers with a working pressure up to a maximum of 20 bars is 100-200 ppm as CaCO<sub>3</sub>.

Initial dosage: 0,40 ltr. Caretreat 3 Boiler per metric ton boiler water.

#### Dosing Table

Number of drops	p-Alkalinity ppm CaCO <sub>3</sub>	p-value mval/litr	req.p/1000ltr boilerwater
0	0	0	0.8
3	50	1	0.6
6	100	2	0.4
9	150	3	0.2
12	200	4	0.0

#### Notes:

- Instead of ppm CaCO<sub>3</sub> the P-Alkalinity is sometimes expressed in mval/litre.  
Calculation: drops X 1/3 = mval/litre (=p-value)
- Generally the p-value can be calculated if the ppm CaCO<sub>3</sub> is known using the following equation:  
ppm CaCO<sub>3</sub> : 50 = mval/litre

**Warning:**

Do not use the solution used for p-Alkalinity determination for Chloride level determination, because Phenolphthalein indicator Powder Pillows contain Sodium chloride.

The details of our products are given completely free of undertaking. Since their application lies outside our control we cannot accept any liability for the results.