



RX MARINE INTERNATIONAL

Total Solution Total Protection

AN ISO CERTIFIED COMPANY



ALKALINITY TEST KIT

Part/Order no:

RXSOL-62-5515

REAGENT & APPARATUS:

Reagent: RXSOL TK 7 , TK 8 , TK 9 , . Apparatus: TEST TUBE , Titrator or DROPPER.

A) PROCEDURE FOR p-ALKALINITY TEST (STEP WISE) :

- Measure 10 ml of SAMPLE WATER in graduated TEST TUBE / CYLINDER.
- Add 1-2 drops of RXSOL TK7 and mix with the stirring rod , If sample turns red / PINK (which indicates presence of p-Alkalinity) then follows 3rd step otherwise if sample remains colorless (Record p-Alkalinity=0).
- Add **RXSOL TK9** drop by drop (by counting) , mixing with the stirring rod until color just disappears. Each drop is equivalent to 25 ppm of p-Alkalinity , expressed as CaCO₃.

RESULT:

Each DROPS is equivalent to 25 PPM of p-Alkalinity.

NOTE:

p-Alkalinity VALUE = 25 X (Total Number of DROPS of TK9 , during 3rdstep).

B) PROCEDURE FOR m-ALKALINITY TEST (STEP WISE)

- Measure 10 ml of SAMPLE WATER in graduated TEST TUBE / CYLINDER.
- Add 2-3 drops of **RXSOL TK8** and mix with stirring rod the sample will turn to BLUISH-GREEN.
- Add **RXSOL TK9** carefully by counting drop by drop and mixing thoroughly until a light reddish (salmon) pink color develop.

RESULT:

Each DROPS is equivalent to 25 PPM of — Alkalinity.

VALUE = 25 X (Total Number of DROPS of TK9, during 1.3 step).

C) PROCEDURE for TOTAL ALKALINITY (VALUE of A + VALUE of B)

- Measure 10 ml of SAMPLE WATER in graduated TEST TUBE / CYLINDER.
- Add 1-2 drops of **RXSOL TK7** and mix with the stirring rod , If sample turns red / PINK (which indicates presence of p-Alkalinity) then follows 3rd step otherwise if sample remains colorless (Record p-Alkalinity=0) then proceed to STEP-4.
- Add **RXSOL TK9** drop by drop (by counting) , mixing with the stirring rod until color just disappears. Each drop is.
- Add 2-3 drops of RXSOL TK8 and mix with stirring rod , the sample will turn to BLUISH-GREEN.

- 2.5 Add **RXSOL TK9** carefully by counting drop by drop and mixing thoroughly until a light reddish (salmon) pink color develops.

For Below 50 ppm , Dose ½ Ltr of RXSOL-50-5001-BWT for 1000 Ltr of BOILER WATER , to maintain p-Alkalinity level 100 ppm.

RESULT:

Each DROPS is equivalent to 25 PPM of Alkalinity.

NOTE:

p-Alkalinity ppm CaCO₃VALUE = 25 X (Total Number of DROPS of TK9 , during 2.3 step) = **X** (Say)
 m-Alkalinity ppm CaCO₃VALUE = 25 X (Total Number of DROPS of TK9 , during 2.5 step) = **Y** (Say)
Total Alkalinity ppm CaCO₃VALUE = X+Y

Refill pack:

REPLACEMENTS.

Tk7 :- ECONOMIC PACK (100 / 200 / 500 ml) available

Tk8 :- ECONOMIC PACK (100 / 200 / 500 ml) available

Tk9 :- ECONOMIC PACK (100 / 200 / 500 ml) available

Numbers of drops of Tk9	P-Alkalinity as CaCO ₃
1	25
2	50
3	75
4	100
5	125
10	250
20	500
30	750
40	1000

Optimum Result:

p-Alkalinity level is between 100 to 150 PPM is suggested.

if p-Alkalinity level is more then 150 ppm then level should be reduced by increased BLOW DOWN process with immediate effect.