

BUFFERON R11

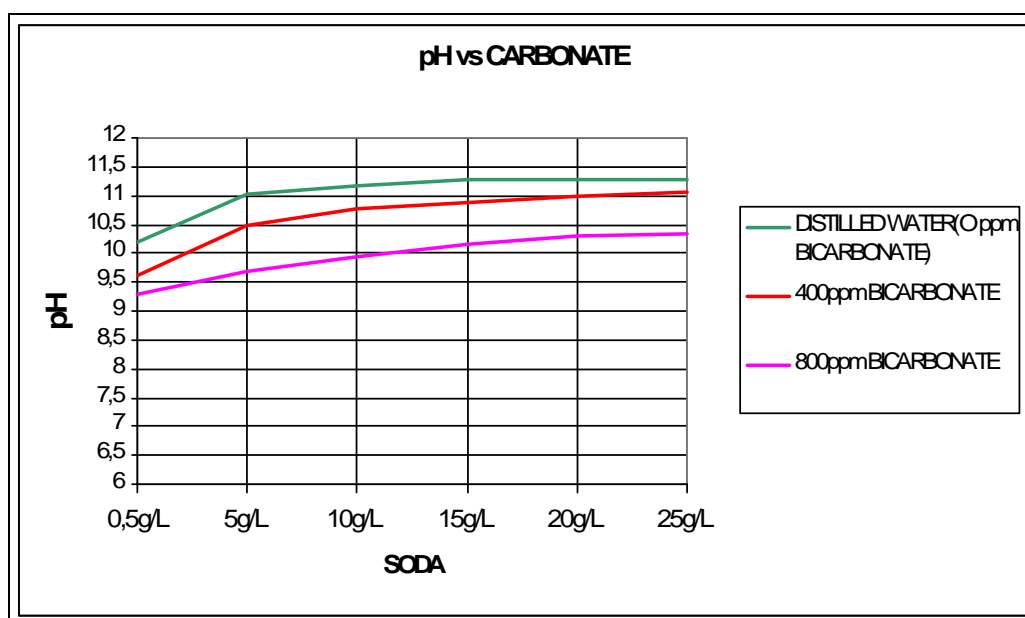
Acid Buffer for Reactive Dyeing

Characteristic : Inorganic buffer.

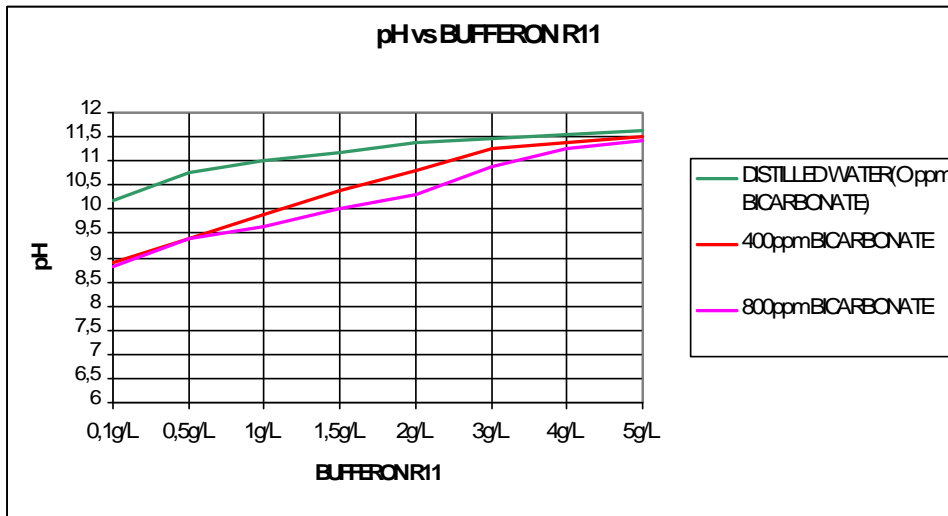
Appearance : White powder.

Properties :

- **BUFFERON R11**, is used for the specific pH control during reactive dyeing. It is applied to replace alkali soda ash.
- Since underground water contains bicarbonate between 150 - 500 ppm level, sodium carbonate buffers with bicarbonate and pH never rises above 10,2 and hence, dye yield will decline, and repeatability of shade never achieved.
- Besides that, due to rain season, bicarbonate level fluctuates in underground water and so final pH approached will also vary and hence recipe yield change.



- Where as, **BUFFERON R11**, is developed to overcome the deficiency of carbonate in bicarbonate containing water. It ensures stable pH approach at the end of dyeing around 10,8.

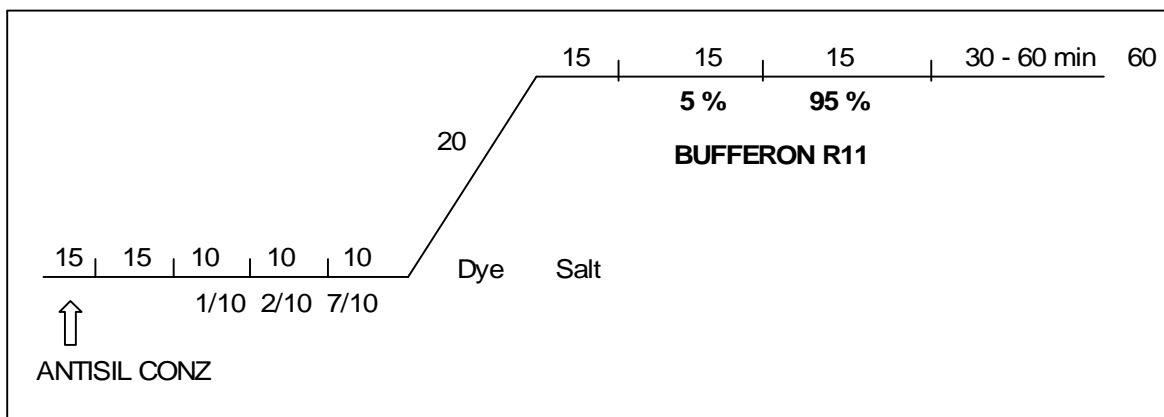


- Besides its superiority of final level of pH, **BUFFERON R11**, buffers the pH the beginning of dyeing, causing to increase very slowly compared to carbonate. Hence leveling of reactive dyeing is more likely.

pH(10 % soln.) : 3,5 - 4,5

Application :

- BUFFERON R 11** is dissolved in cold water in long ratio and dosed into dyeing machine, 30 - 45 min after dye-salt addition time, (as explained in our web, www.eksoy.com - Cellulose Processing)

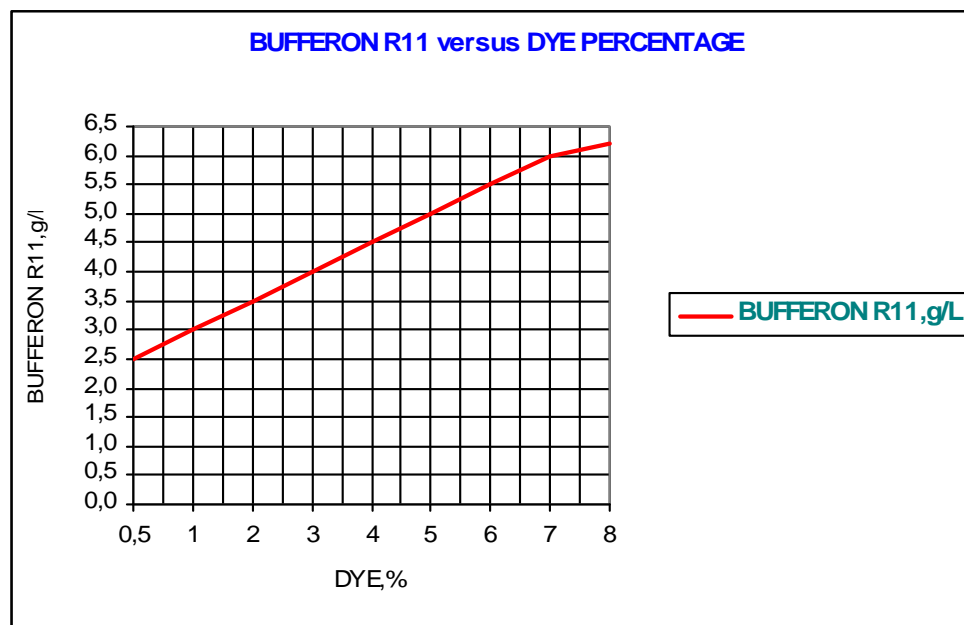


Note:

- In conventional reactive dyeing, Na ion is supplied by salt and soda ash. Since amount of **BUFFERON R11** is comparatively one quarter of Na_2CO_3 , hence sodium ion quantity is also diminished accordingly. In order to compensate Na ion deficiency salt amount is increased by 10 %.
- In bulk dyeing, **BUFFERON R11** is increased by 20 % of Lab recipe amount.

Exhaust Dyeing (Jet, Overflow, Package Dyeing)

- Since sodium ion, introduced by **BUFFERON R11** is rather reduced as compared to Sodium Carbonate, NaCl amount is increased by 20 % to compensate this deficiency and to match the shade more safely.
- General application amount for **BUFFERON R11** is 2,5 - 5,5 %.



Jigger Dyeing

BATH RATIO : 1 / 2

DYE %	BUFFERON R11, g/L	INITIAL pH	FINAL pH
1	6	11,6	11
2	7	11,6	11
3	8	11,6	11
4	9	11,6	11
5	10	11,6	10,9
6	13	11,6	10,9
7	15	11,5	10,9
8	16	11,5	10,9
10	17	11,5	10,8

Storage : 2 year.

These data are based on our practical experience and may be recommended only without any liability, due to the different plant conditions.

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