

# BUFFERON EDC

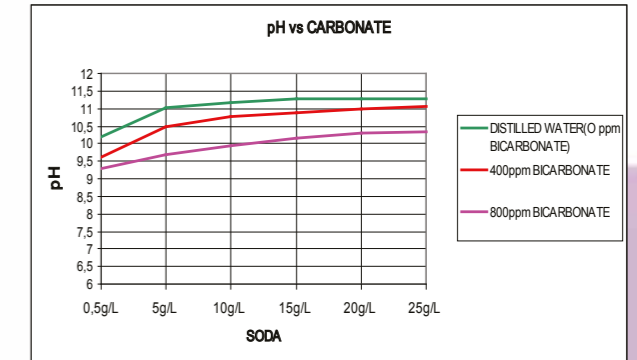
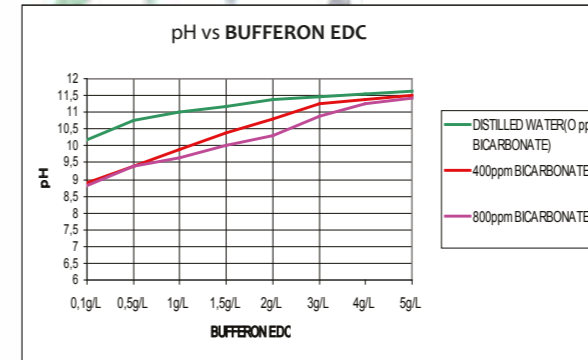
- pH value of the dye bath is the important point of the reactive dyeing. Reaction rate increases with the increase of pH, but rapid increase the pH value increases also the risk of hydrolyzation and unlevelling.
- **BUFFERON EDC** is a buffer, that provides the final pH value of the dye bath to reach 10,8 - 11,2. Stable final pH value minimizes batch to batch differences.

pH: 10,20		Strength: 75,61
pH: 10,40		Strength: 85,78
pH: 10,60		Strength: 93,20
pH: 10,80		Strength: 99,22
pH: 11,00		Strength: 100
pH: 11,20		Strength: 100

1,6 % YELLOW 3RS 150%  
 0,93 % RED 3BS 150 %  
 1,15 % NAVY RN  
 80 g/L SODIUM SUPHATE

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.

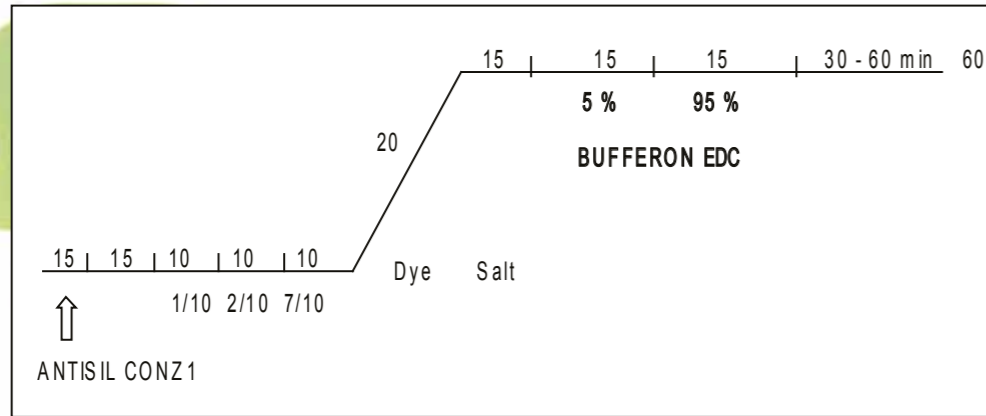
Besides that, due to rain season, bicarbonate level fluctuates in underground water and so final pH approached will also vary and hence recipe yield change.



**BUFFERON EDC** increases pH slower than Soda, so risk of unlevelness decreases.

80°C, 45 min. Dye + Sulphate		80°C, 45 min. Dye + Sulphate
3 / 100 SODA		3 / 100 BUFFERON EDC
The sample is taken after 80°C, 10 min. pH: 9,2		The sample is taken after 80°C, 10 min. pH: 8,3
7 / 100 SODA		7 / 100 BUFFERON EDC
The sample is taken after 80°C, 10 min. pH: 9,9		The sample is taken after 80°C, 10 min. pH: 9,2
1 / 10 SODA		1 / 10 BUFFERON EDC
The sample is taken after 80°C, 10 min. pH: 10,2		The sample is taken after 80°C, 10 min. pH: 9,7
8 / 10 SODA		8 / 10 BUFFERON EDC
The sample is taken after 80°C, 10 min. pH: 10,65		The sample is taken after 80°C, 10 min. pH: 11,2
End of Dyeing pH: 10,7		End of Dyeing pH: 11,2

**BUFFERON EDC** 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](http://www.eksoy.com) - Cellulose Processing)



Since sodium ion, introduced by **BUFFERON EDC** is rather reduced as compared to Sodium Carbonate, NaCl amount is increased by 25 % to compensate this deficiency and to match the shade more safely.

Below is the general application amount for **BUFFERON EDC**;

DYES (%)	BUFFERON EDC	SODA
0 - 0,5	2,6	12
0,5 - 1	2,9	16
1-1,5	3,3	18
1,5 - 2	3,6	22
2 - 2,5	3,9	22
2,5 - 3	4,3	22
3 - 3,5	4,6	25
3,5 - 4	4,8	25
4 - 5	5	25
> 5	5,8	25

General application amount for **BUFFERON EDC** is 2,5 - 5,5 %.



Better Levelling  
Safe Dyeing  
Standart Final pH

# BUFFERON EDC

Buffer for Reactive Dyeing

