

























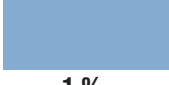
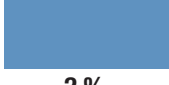
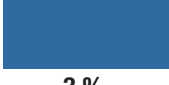







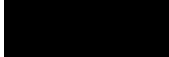



# Rapeko Series

Less Time  
Less Water  
Less Energy

## RAPEKO SERIES

- High build-up at 40 °C, conferring perfect level dyeing and economy.
- In order to heat-up, 1000 kg water by 10 °C, consumed energy is;
  - NPG 2 m<sup>3</sup>
  - Coal 5 - 6 kg
  - Fuel - oil 1,0 kg
- Rapeko Dyes offer level dyeing at 40 °C, saving for 1 tons of fabric, based 1/8 B/R;
  - NPG 32 m<sup>3</sup>
  - Coal 80 - 96 kg
  - Fuel - oil 16 kg
- Soaping with EXOLINE MAGIC M, extra saving is achieved from energy, electric time.

	1 %	2 %	3 %
<b>RAPEKO GOLDEN YELLOW M-D</b>			
<b>RAPEKO YELLOW D</b>			
<b>RAPEKO GOLDEN YELLOW</b>			
	0,25 %	0,5 %	1 %
<b>RAPEKO RED L</b>			
	1 %	2 %	3 %
<b>RAPEKO RED M-D</b>			
<b>RAPEKO RED</b>			
<b>RAPEKO RED X-D</b>			
	0,25 %	0,5 %	1 %
<b>RAPEKO BLUE</b>			
<b>RAPEKO BLUE P</b>			
	1 %	2 %	3 %
<b>RAPEKO NAVY MS</b>			
<b>RAPEKO NAVY</b>			
	3 %	5 %	6 %
<b>RAPEKO BLACK</b>			

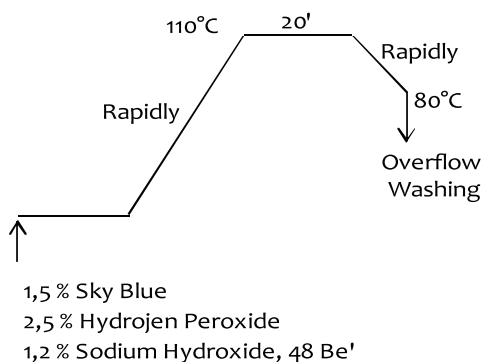
## Fastness Results;

DYES	Light Fastness, ISO 105 B 02	Washing Fastness C4A		Water Fastness C6		Perspiration Fastness, C7				Rubbing Fastness C8		Perspirated Light Fastness, ISO 105 B07		Discharge Ability	
		Alteration	Staining	Alteration	Staining	Acid		Alkaline		Dry	Wet	Acid	Alkaline	Neutral	Alkaline
						Alteration	Staining	Alteration	Staining						
RAPEKO GOLDEN YELLOW M-D (3%)	5	4-5	4/5	4-5	4/5	4-5	4/5	4-5	4/5	4/5	3/4	4-5	4-5	B	B
RAPEKO YELLOW D (%3)	5	5	4/5	4-5	4-5	4-5	4-5	4-5	4-5	4/5	3/4	4-5	4-5	B	B
RAPEKO GOLDEN YELLOW (3%)	5	4-5	4/5	4-5	4/5	4-5	4/5	4-5	4/5	4/5	3/4	4	4	A	A
RAPEKO RED L (1%)	4	4-5	4/5	4-5	4/5	4-5	4/5	4-5	4-5	5	4/5	4	3-4	B	B
RAPEKO RED M-D (3%)	4-5	4-5	4/5	4-5	4/5	4-5	4/5	4-5	4-5	4/5	3/4	3/4	3	C	C
RAPEKO RED (3%)	5	4-5	4/5	4-5	4/5	4-5	4/5	4-5	4/5	3/4	3/4	4	3/4	B	B
RAPEKO RED X-D (3%)	4-5	4-5	4	4-5	4	4-5	4	4/5	4	4/5	3/4	4	3/4	B	B
RAPEKO BLUE (1%)	5	4-5	4/5	4-5	4/5	4	4/5	3-4	4/5	5	4/5	3-4	3	B	B
RAPEKO BLUE P (1%)	5	4-5	4/5	4-5	4/5	4-5	4/5	4-5	4/5	5	4/5	4-5	4	A (0,5%)	A (0,5%)
RAPEKO NAVY MS (3%)	4-5	4-5	4/5	4-5	4/5	4-5	4/5	4-5	4/5	4/5	3/4	4	3/4	B	B
RAPEKO NAVY (3%)	4-5	4-5	4/5	4-5	4/5	4-5	4/5	4-5	4/5	4/5	3/4	3/4	3	A	A
RAPEKO BLACK (6%)	5	4-5	4/5	4-5	4/5	4-5	4/5	4-5	4/5	4/5	3/4	4	3/4	A	A

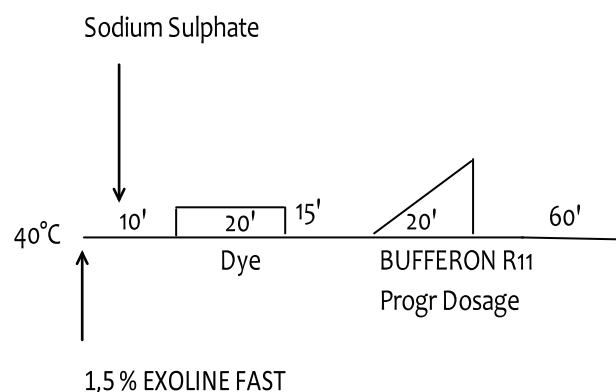
Dyeing Process, 40 °C (Energy & Time Saving)

- 46 kg steam saving for each 1 ton water.

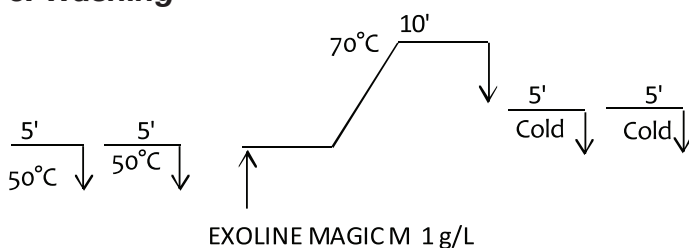
### a. Pretreatment (with Sky Blue)



### b. Dyeing



### c. Washing



- When RAPEKO Dyes are needed to shade with Conventional Dyes, dyeing can be carried out at 40 - 60 °C.

- The Amount of Dye and Salt

DYE %	UNMERCERIZED COTTON			MERCERIZED COTTON/VISCOSE		
	SODIUM SULPHATE ANHYDROUS g/L			SODIUM SULPHATE ANHYDROUS g/L		
	F;1:14	F;1:10	F;1:6	F;1:14	F;1:10	F;1:6
Below 0,5	25	20	15	20	15	11
0,5-1	40	30	20	25	20	15
1-1,5	65	50	35	45	35	25
1,5 - 3	80	60	40	60	45	30
3 - 6	105	80	55	80	60	40
6 - 8	115	90	65	90	70	50
Above 8	130	100	70	95	75	55

NOTE: In Tencel Dyeing, the amount of sodium sulphate which is given for viscose should be decreased by 10%.

- The Amount of Dye & Alkali **BUFFERON R11**

DYES (%)	<b>BUFFERON R11</b>	SODA
0 - 0,5	<b>2,6</b>	12
0,5 - 1	<b>2,9</b>	16
1 - 1,5	<b>3,3</b>	18
1,5 - 2	<b>3,6</b>	22
2 - 2,5	<b>3,9</b>	22
2,5 - 3	<b>4,3</b>	22
3 - 3,5	<b>4,6</b>	25
3,5 - 4	<b>4,8</b>	25
4 - 5	<b>5</b>	25
> 5	<b>5,8</b>	25

NOTE: Since sodium ion, introduced by **BUFFERON R11** 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.

In bulk dyeing, **BUFFERON R11** is increased by 20% of Lab. recipe amount