



Özbek Kimyevi Ürünler Tekst. İnş. Gıda. San. Tic. Ltd. Şti






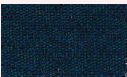



Ozactive
Reactive
Boyalar

Ozactive PX
Reactive Baskı
Boyaları








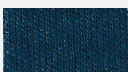
Ozactive "HE"

For hot exhaust economical dyes for standard requirements

DYEING 3.0 %	Ozactive "HE"	General Properties			Fastness Properties				Suitability			
		Affinity	Solubility at 30°C	Dischargability	Day Light 1/1 &1/6	Perspiration		Acidic	Hypochlorite Bleach	Exhaust at R.T.	Printing	
						Washing ISO4	Alkaline				Steam	Silicate
	Yellow HE4G Yellow 81	H	70	G	4	5	4	4-5	3	3	S	FS
	G. Yellow HE4R Yellow 84	H	80	F	5	5	4	4	3	4-5	S	FS
	Orange HER Orange 84	H	6	P	3-4	5	4	3	3	4	S	NS
	Red HE3B Red 120	H	80	P	4 5	5	4-5	4	3	4	S	NS
	Red HE7B Red 141	H	80	P	3-4 4-5	4	4-5	4	3	4-5	S	FS
	Navy Blue HER Blue 171	H	80	F	4	4-5	5	4-5	3	4-5	S	FS
	Blue HEGN Blue 198	M	50	P	4-5	5	4	4	3	4	5	FS

Ozactive "ME"

For warm exhaust for normal fastness with good reproductivity

DYEING 3.0 %	Ozactive "ME"	General Properties			Fastness Properties				Suitability						
		Substantivity	Solubility at 30°C	Dischargability	Day Light 1/1	Washing ISO4	Perspiration		Hypochlorite Bleach	Peroxide Bleach	Exhaust 40°C&60°C	One Bath Pad Batch	One Bath Pad Dry-Steam	Printing	
							Alkaline	Acidic						Steam	Silicate
	Yellow 4GL Yellow 1604	M	100	F	6	4	4-5	4-5	1	4	S	FS	NS	S	S
	Yellow 3RS Yellow 145	M	100	P	5	3-4	4	4	1	3-4	S	FS	S	S	S
	Orange 2RL Orange 122	H	75	P	5	4-5	4-5	4-5	3	4	S	S	S	S	S
	Scarlet 3G	H	90	P	4-5	4-5	4-5	4-5	2-3	3-4	S	S	FS	FS	FS
	Red 3BL Red 194	H	100	P	5	4-5	4-5	5	2-3	3	S	S	FS	FS	FS
	Red 3BS Red 195	H	150	P	5	4-5	5	5	1	4	S	S	S	S	S
	Blue BRF Blue 221	H	100	P	5	5	4	4-5	2	3-4	S	S	FS	FS	S
	Nairy Blue BF Blue 222	H	100	G	3-4	4-5	5	5	1	3	S	NS	S	FS	FS









Ozactive "VS"

For warm exhaust and pad dyeing with excellent wet fastness

DYEING 3.0 %	Ozactive "VS"	General Properties			Fastness Properties				Suitability					
		Substantivity	Solubility at 30°C	Dischargability	Day Light 1/1 & 1/6	Washing ISO4	Perspiration		Hypochlorite Bleach	Exhaust 40°C&60°C	One Bath Pad Batch	One Bath Pad Dry-Steam	Printing	
							Alkaline	Acidic					Steam	Silicate
	Yellow GL Yellow 37	H	80	G	6	4 5	5	5	2-3	S	S	S	S	FS
	G. Yellow G Yellow 17	H	100	G	4-5 6	5	5	5	1	S	S	S	S	FS
	Yellow GR Yellow 15	H	100	G	4-5 6	5	5	5	1	S	S	S	S	FS
	G. Yellow RNL Orange 107	M	100	G	4-5 6	4-5	5	5	1	S	S	S	S	S
	Orange 3R Orange 16	H	80	G	5 6	4-5	4-5	4-5	1	S	NS	S	S	S
	Red RB Red 198	M	100	F	5	4-5	4	4-5	4	S	S	S	S	S
	Red 5B Red 35	L	80	G	3-4	5	5	5	1	FS	S	S	S	S
	Violet 5R Violet 5	M	100	P	4-5	4 7	5	5	2	S 5	S	S	S	FS
	Blue BB Blue 220	M	100	G	4-5 5	5	4	4-5	2-3	FS	S	FS	FS	S
	N. Blue RGB Blue 250	M	100	F	4-5	4-5	4-7	4-5	2-3	S	S	FS	FS	S
	Navy Blue GG Blue 203	H	100	G	4	4-5	4	4-5	2-3	S	S	FS	FS	S
	Blue R. Spcl Blue 19	L	150	F	4-5	5	5	4-5	4	FS	S	FS	FS	S
	T. Blue G Blue 21	H	80	P	6	4-5	4-5	4-5	3	S	S	S	S	S
	Black B Black 5	VH	150	G	4	5	5	5	1	S	S	S	S	S













Ozactive CD ED

Multifunctional warm exhaust for deep shades with cost effective and higher productivity

DYEING 3.0 %	Ozactive	Light	Washing ISO4	Acidic Perspiration	Alkaline Perspiration	Hydrochloride Bleach	Peroxide Bleach	Dischargeability	Solubility 60°
	Lemon CD ED	5	5	4	4	4	4	ND	100
	Yellow CD ED	4	4-5	4	4	4-5	4-5	D	100
	Orange CD ED	4-5	4-5	4	4	4-5	4-5	ND	100
	Deep Red CD-ED	4-5	4	4	4	3	3	ND	100
	Red CD-3B	4-5	4-5	4-5	4-5	4	4	ND	120
	Red ED-7B	5	5	5	5	4-5	4-5	M	120
	Blue ED	4-5	4-5	5	4	4	4	M	150
	Navy CD-ED	5	4-5	5	5	4	4	M	150




Ozactive Blacks

For warm exhaust and pad dyeing high quality, high performance, economical & most suitable Blacks

DYEING 6 %	Ozactive	Light	Washing ISO4	Acidic Perspiration	Alkaline Perspiration	Hydrochloride Bleach	Peroxide Bleach	Dischargeability	Solubility 60°
	Black WM	4-5	5	5	5	3-4	3-4	D	150
	Black WNN	4-5	5	5	5	3-4	3-4	D	150
	Black DNCconc	4-5	5	5	5	3-4	3-4	D	150
	Black EX-F	4-5	5	5	5	3-4	3-4	D	150
	Black TNN	4	4	4-5	4-5	3-4	3-4	D	120
	Super Black R	4	5	5	5	3-4	3-4	ND	150
	Super Black G	4	5	5	5	3-4	3-4	D	120
	Black OX	3-4	4	4	4	3-4	3-4	D	140
	Black SRP	3-4	5	5	5	3-4	3-4	D	150
	Black XL	4-5	5	5	5	3-4	3-4	D	150
	Black EDG	5	4-5	4-5	5	5	5	D	120
	Black EDR	5	4-5	4-5	4-5	5	5	D	120

Ozactive Granul TKXL

Multifunctional warm exhaust high fixation eco-friendly with reliable applications,

DYEING 3.0 %	Ozactive	Light	Washing ISO 4	Acidic Perspiration	Alkaline Perspiration	Hydrochloride Bleach	Peroxide Bleach	Dischargeability	Solubility 60*
	Yellow TKXL	5	4-5	4	4	4-5	4-5	D	100
	Orange TKXL	5	5	5	5	4-5	4-5	D	80
	Red TKXL	5	5	5	5	4-5	4-5	M	120
	Rubine TKXL	5	4	4	4	4	4	ND	100
	Navy TKXL	5	4	4	5	4-5	4-5	M	120

Exhaustion dyeing

Salt

The same amount of commonsalt (NaCl) or Glauber's salt anhydrous (NazSOa) can be used. If Glauber's salt cryst. (Narso4,1OHro) is used, the amount of salt must be doubled.

Alkali

Caustic soda, soda ash are used to fix the dyes> The type and amount of alkali required is states as the below table.

The final pH of Dycrofix reactive dye bath :

Dyeing temperature	Final pH (30°C)
50°C	approx. 11 .0
60°C	approx. 10,5
80°C	approx, 9.5

Auxiliaries

Sequestering agents

Sequestering agents are used to soften water and bond free heavy metal ions. Sequestering agents that do not remove the metals from reactive metal complex dyes should be used, as otherwise the shade can change and fastness propedoes can be impaired.

Therefore EDTA-based products are not suitable.

Antofoams

Foam can irripair the running of the goods in bath and thus reduce levelness. Extremely dilute soluiions should be dosed into the liquor s|owly. Silicone-free antofoams should be used where possible.

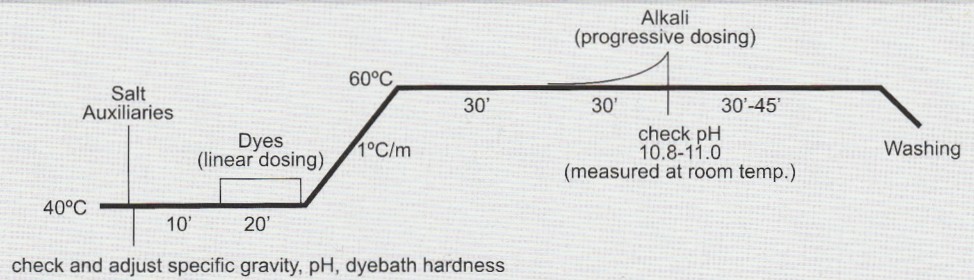
Lubricant

Lubricant agent prevents crack marks and creases. It should have no adverse effect on dye liquor stability.

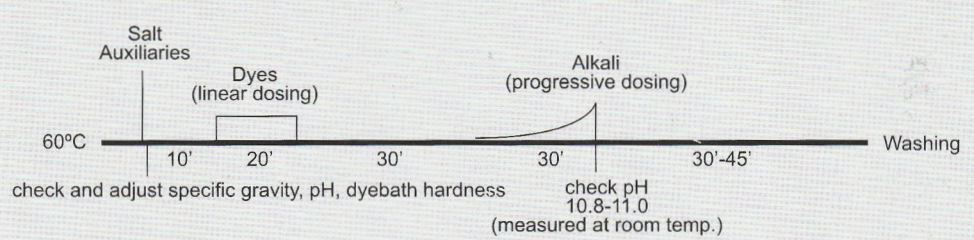
Alkali & Salt Recommendation

Dyeing depth (%o.w.f.)	Ozactive HE					Ozactive HE ME, TKXL, CD ED					Ozactive VS				
	Salt (g/l)		Soda ash or Mixed alkali (g/l)			Salt (g/l)		Soda ash or Mixed alkali (g/l)			Salt (g/l)		Soda ash or Mixed alkali (g/l)		
	unmerc.	merc.	Soda ash	Soda Ash + NaOH		unmerc.	merc.	Soda ash	Soda Ash + NaOH		unmerc.	merc.	Soda ash	Soda Ash + NaOH	
up to 0.1	10	5	10	5	0.7	8	5	5	5	0.2	10	7	7	5	-
0.3	20	10	10	5	0.7	17	10	8	5	0.5	20	10	10	5	10
0.5	30	20	10	5	0.7	25	15	10	5	0.5	30	15	12	5	1.3
1.0	45	30	15	5	1.0	30	20	15	5	1.0	35	25	15	5	1.5
1.5	53	35	15	5	1.0	32	25	15	5	1.2	40	25	15	5	1.8
2.0	60	40	15	5	1.0	40	30	15	5	1.5	45	30	20	5	2.0
2.5	65	45	15	5	1.5	45	35	15	5	1.8	50	35	20	5	2.3
3.0	70	50	20	5	1.5	50	40	20	5	2.0	55	40	20	5	2.5
3.5	75	55	20	5	1.5	55	45	20	5	2.0	60	45	20	5	2.6
4.0	80	60	20	5	1.5	60	50	20	5	2.5	65	50	20	5	2.7
4.5	85	65	20	5	1.5	65	55	20	5	2.5	70	55	20	5	2.8
5.0	90	70	20	5	1.5	70	60	20	5	2.5	75	60	20	5	2.9
5.5	95	75	20	5	1.5	75	65	20	5	2.5	80	65	20	5	3.1
above 6.0	100	80	20	5	1.5	80	70	20	5	2.5	85	70	20	5	3.3

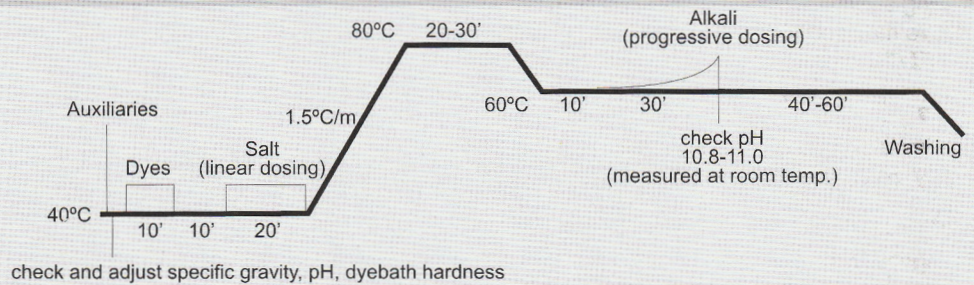
A. Standard method
Temperature rise



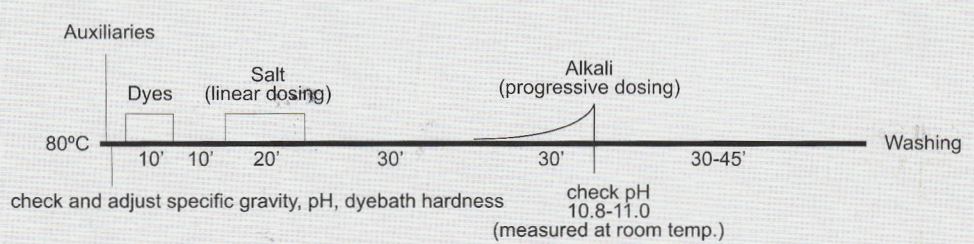
B. Standard method
Isothermal at 60°C







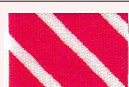

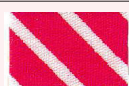
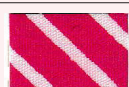
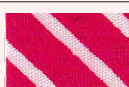







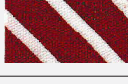
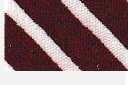


C. Specific method
Migration



D. Specific method
Isothermal at 80°C



Steam Print 3.0%	Ozactive MCT Dyes	Solubility g/l at RT	Fastness Properties					Suitability				
			Light (Xenon Test) (1/1 & 1/6) ISO-105-C03	Washing ISO-105-C03 Effect/Stain	Perspiration Alkaline/Acidic	Chlorinated Water (ISO-105-E03)	Atmospheric Steaming 8-12 Min. 175C°	Superheated Steam 6-8 Min. 175 C°	Thermofixation 5 min. - 150°	Silicate	Resist under VS Dyes	Dischargeability
	Yellow PX4G (Yellow 18)	80	5-6 5	5 5	4-5 5	3	S	S	S	S	S	G
	Yellow PX6G (Yellow 95)	100	6-7 6	5 5	5 5	3	S	S	S	S	S	G
	G. Yellow PXR (Orange 12)	100	6 5-6	5 5	5 5	4	S	S	S	S	S	F
	Orange PX2R (Orange 13)	100	5 4-5	5 5	5 4	4	S	S	S	S	S	F
	Orange PX4R (Orange 35)	100	5 5-6	5 5	5 5	4	S	S	S	S	S	F
	Scarlet PXRN (Mix)	100	4-5 5	5 5	5 4	4	S	S	S	S	S	P
	Red PXBN (Red 24)	130	5 4-5	4-5 5	4 4-5	3-4	S	S	S	S	S	P
	Red PX2B (Red 45)	130	4-5 5	4-5 5	4-5 4	3	S	S	S	S	S	P
	Red PX4BN (Red 245)	150	4 4	5 5	5 5	3-4	S	S	S	S	S	G
	Red PX6B (Red 218)	150	5 4-5	4 5	4 4	4-5	S	S	S	S	S	F
	Red PX8B (Red 31)	130	4-5 5	5 5	5 5	4-5	S	S	S	S	S	F
	Purple P3R (Violet 1)	80	5-6 5	5 5	4	4	S	S	S	S	S	P

Steam Print 3.0%	Ozactive MCT Dyes	Solubility g/l at RT	Fastness Properties				Suitability							
			Light (Xenon Test) (1/1 & 1/6) ISO-105-B02	Washing ISO-105-C03 Effect/Stain	Perspiration Alkaline/Acidic	Chlorinated Water (ISO-105-E03)	Atmospheric Steaming 8-12 Min. 102C*	Superheated Steam 6-8 Min. 175 C*	Thermofixation 5 min. - 150*	Two Phase Steaming 90 sec. - 125 C*	Silicate	Resist under VS Dyes	Dischargeability	
	Blue PX5R (Blue 13)	120	5-6 5	5 5	4-5 4	2	S	S	S	S	S	S	S	P
	Blue PX3R (Blue 49)	130	6 6	4-5 5	4 4-5	2	S	S	S	S	S	FS	S	P
	Navy Blue PX2R (Black 39)	100	4-5 5	4 5	4 4	4	S	S	S	S	S	S	S	P
	Tq. Blue PX2GR (Blue 72)	120	5-6 6	4 4	4 3-4	4	S	NS	S	S	S	S	S	F
	Brown PX2R (Brown 11)	120	5-6 6	5-6 5	5 5	4	S	S	S	S	S	S	S	G
	Red Brown PX4R (Brown 9)	100	4-5 5	4 5	3-4 3-4	3-4	S	S	S	S	S	S	S	G
	Black PXN (Black 8)	100	4-5 5	4-5 5	4-5 4-5	4	S	S	S	S	S	S	S	P
	Black PXGR (Mix)	120	5-6 6	5 5	5 5	5	S	S	S	S	S	S	S	G

This pattern card illustrates the **Dycrofix'P'** dyes from **JAGSON** which are suitable for printing of cellulosic fibers.

1. Pretreatment of the goods

To ensure optimum results in reactive printing of woven or knitted fabric all impurities in the fibre, lubricants, auxiliaries and processing chemicals that could react with reactive dyes or adversely affect the printing process must be removed. To obtain maximum colour yield brilliancy levelness and wet fastness properties on cotton, it has been mercerized or treated with a caustic soda solution of at least 22 °Be (16.4%) Regenerated cellulosic fibres should be treated in atensionless state with a caustic soda solution of approx 6-8°Be (4-5%) Alkaline pretreatment improves further dimensional stability and facilitates washing-off of the prints.

2. Print paste preparation

Most important ingredient is the thickener.

Sodium alginate is the ideal thickener for the purpose, which does not react with the dyestuff and can be very easily washed off.

Print recipe

A. Stock thickener

Sodium alginate thickener	400-600 Parts
Urea	100-200 Parts
Dycrogol (Resist Salt)	10 Parts
KBI Liquid	5 Parts
Sodium Bicarbonate	25-30 Parts
Preservative	0.5-1.0 Parts
water	X parts
	1 000 Parts

B. Print paste preparation

stock thickener	X Parts
Dycrofix'P' Dyes	Y Parts
	1000 Parts

3. Fixation

The following fixation methods can be used as per availability of equipment:

Fixation medium for one-phase printing	Substrate	Time min	Temperature	Alkali
Saturated steam	WO/Silk	10-20	102 °C	Sodium Acetate
Saturated steam	CO, CV	8-12	102 DC	Sodium Bicarbonate or Soda Ash
Hot air*	CO	5	150 °C	
Hot air*	PES/CO	1	190-200 C	
Superheated steam*	PES/CO	6-8	175 X	

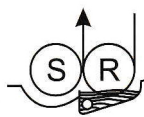
* with higher amounts of urea.

4. Two-phase prints

First of all the dried prints are impregnated open-width and crease-free with an alkaline fixation liquor and after that fixed as per the available equipment.



Face padding



Immersion

A horizontal padder with steel/rubber roller arrangement has effective to apply the alkaline fixation liquor which should allow both face padding and immersion of the fabric, depending on its structure and weight. The padding roller which comes into contact with the printed side of the fabric should be made of steel (S) and the nip roller should be covered with rubber (R).

Fixation Liquors :

Electrolyte / alkali		
Water	x	cm ³
Soda ash	150	g
Common Salt	100	g
Potash	80	g
Caustic soda 32.5%	50	cm ³
Sodium silicate	50	cm ³
(Na ₂ O:SiO ₂ 1:3:3)	
	1,000	cm ³

Sodium silicate		
(Na ₂ O:SiO ₂ 1:1.7-2.0)	1,000	cm ³
(Na ₂ O:SiO ₂ 1:3:3)	1,000	cm ³

5. Washing-off

To obtain a clean white ground, high brilliancy and good fastness properties, carry out a proper washing-off process.

There are two stages for washing-off of prints. One is to remove thickeners, chemicals and unfixed dyes and another one is to maximize fastness properties.

In first stage, to obtain a clean white ground. swell the dry thickening film and remove the swollen thickening, residual alkali, unfixed reactive dye and auxiliaries.

The best results are achieved with a specific water, flow e.g. by spraying the goods with a low liquor level, effective separation of the rinse baths and rapid liquor exchange at 90-95 °C. If this is not possible, we recommend starting the washing-off process with cold water.

In two-phase methods, the swollen thickening, alkali, unfixed dye and auxiliary should be removed by spraying intensively at 40 °C, preferably without standing liquor.

After this, the goods are washed first at 60-70 °C and then at 90-95 °C.

The prints should be washed-off in soft water to prevent formation of sparingly soluble calcium alginate. It is important to washed-off all unfixed and hydrolysed dye components completely if it's still present in the woven or knitted fabric.

As basically this is a diffusion process, the time/temperature relationship is important.

In the washing-off process, not too much trust should be placed in the action of any detergents used for water soluble dyes.

It is very important to ensure that the baths are close to the boil. As the temperature rises, the substantivity of hydrolysed dye declines and the rate of diffusion increases. This assists the removal of the hydrolysed dye from the fibre.

The information provided here is in good faith, as our current knowledge of the product without liability.



Özbek Kimyevi Ürünler Tekst. İnş. Gıda. San. Tic. Ltd. Şti



ISO 9001:2008
CERTIFICATION



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Tested for harmful substances
according to Oeko-Tex® Standard 100
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Our product meets Oeko-Tex® Standard 100



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