

Notes

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Everdirect®

www.ecic.com

Better Chemistry
Better Life

Everdirect dyes

Direct Dyes

Dyes for cellulose &
regenerated cellulose fibers




**Everlight
Chemical**

EVERDIRECT

English

Everlight Chemical Industrial Corporation

Introduction of Everdirect dyes :

Everdirect dyes are especially designed for dyeing cellulose and regenerated fiber.

Advantages of Everdirect dyes :

- Economical 、excellent build-up
- High exhaustion & fixation
- Excellent levelling property
- Good color range
- Easy wash-off
- Versatile application
- Excellent compatibility
- Excellent reproducibility for “ Right-First-Time”
- Environmental friendly orientation

Application of Everdirect dyes :

- Piece dyeing
- Yarn dyeing/hank dyeing
- Jigger dyeing
- Garment dyeing
- Pad-Steam Process

Everdirect dyes on Cotton

Normal colors → 1%, black colors → 2%

		Supra Yellow PG	Supra Yellow RL	Supra Orange 2GL	Light Scarlet F2G	Supra Red BWS	Light Rose FR	Supra Rubine BL
								
Solubility (g/l)	80°C	50	80	100	20	100	100	60
Lightfastness (Xenon test) ----- ISO 105-B02	0.5% o.w.f	6	6	>6	2-3	4	2-3	>6
	2.0% o.w.f	>6	>6	>6	3-4	4-5	3-4	>6
Light-fastness to Perspiration (Xenon test) ----- Modified ISO 105-B02	Acid	5-6	>6	>6	3-4	4-5	3-4	5-6
	Alkali	5	>6	5-6	3-4	4-5	3-4	5-6
Fastness to Washing ----- ISO 105-C02 (50°C x 45')	E	4-5	4-5	4-5	4	4-5	4-5	4-5
	C	1-2	2	2	3	2-3	4	4-5
	N	4-5	5	5	5	5	5	5
Fastness to Washing ----- AATCC 61-2A (49°C x 45')	E	4	4-5	4-5	4-5	4-5	4-5	4-5
	C	1-2	2-3	2-3	2-3	1-2	3	3
	N	5	5	5	5	5	5	5
Fastness to Water ----- ISO 105-E01 (37°C x 4hr)	E	5	5	5	4-5	4-5	4-5	5
	C	5	5	5	5	5	5	5
	N	5	5	5	5	5	5	5
Fastness to Perspiration (acid) ----- ISO 105-E04 (37°C x 4hr)	E	4-5	4-5	4-5	4	4	4	4-5
	C	5	5	5	5	4	5	5
	N	5	5	5	5	4-5	5	5
Fastness to Perspiration (alkali) ----- ISO 105-E04 (37°C x 4hr)	E	4-5	4-5	4-5	4	4	4	4-5
	C	5	5	5	5	3-4	5	5
	N	5	5	5	5	4-5	5	5
Fastness to Chlorinated Water (20ppm) --- ISO 105-E03 (27°Cx1hr)	E	4-5	4-5	4-5	3	4	1	2
Fastness to Rubbing----- ISO 105-X12	Dry	5	5	5	5	5	5	5
	Wet	3-4	3-4	3	3-4	3	3-4	3

Remark : 1. E: effect on shade C: stain on cotton N: stain on nylon

2. Test depth : Normal colors → 1%, black colors → 2%.

3. Wet fastness test are carried out under fixing process; lightfastness & perspiration lightfastness are carried out under unfixing process.

Supra Yellow PG	Supra Yellow RL	Supra Orange 2GL	Light Scarlet F2G	Supra Red BWS	Light Rose FR	Supra Rubine BL	Supra Brown GTL	Supra Turq. Blue FBL	Supra Turq. Blue GRL	Supra Blue FFRL	Supra Blue BGL	Supra Blue 4BL	Supra Blue BRL	Supra Blue BRN	Supra Grey CGL	Cupro Black HRN	Fast Black B-160	Fast Black VSF-600	Black ANBN H/C	Fast Black B-300
																				
50	80	100	20	100	100	60	70	60	60	10	40	50	50	30	70	60	20	30	40	40
6	6	>6	2-3	4	2-3	>6	5-6	5-6	5-6	6	6	4	4	5	5-6	1-2	2	2	1	2
>6	>6	>6	3-4	4-5	3-4	>6	5-6	5-6	5-6	>6	>6	5	5	5	>6	3-4	4	4	3	4
5-6	>6	>6	3-4	4-5	3-4	5-6	5-6	3-4	3-4	5-6	5	5	5	5	5-6	3-4	4	4	3	4
5	>6	5-6	3-4	4-5	3-4	5-6	5-6	3-4	3-4	5-6	4-5	5	5	5	5-6	3-4	4	4	3	4
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5	5	5	5	3-4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
5	5	5	5	4-5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
4-5	4-5	4-5	3	4	1	2	3	2	3	2	2	1-2	1-2	1	3	1-2	1-2	2	2	2-3
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4-5	4-5	4-5	4-5	4-5
3-4	3-4	3	3-4	3	3-4	3	3-4	3	3	3-4	3	3	3	2-3	3-4	2	2	2	2	2

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Application of Everdirect dyes :

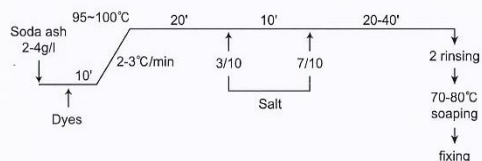
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2.0% o.w.f	
Acid	Light-fastness to Perspiration (Xenon test) ----- Modified ISO 105-B02
Alkali	
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C	
N	
E	Fastness to Washing ----- AATCC 61-2A (49°C x 45')
C	
N	
E	Fastness to Water ----- ISO 105-E01 (37°C x 4hr)
C	
N	
E	Fastness to Perspiration (acid) ----- ISO 105-E04 (37°C x 4hr)
C	
N	
E	Fastness to Perspiration (alkali) ----- ISO 105-E04 (37°C x 4hr)
C	
N	
E	Fastness to Chlorinated Water (20ppm) --- ISO 105-E03 (27°Cx1hr)
Dry	Fastness to Rubbing----- ISO 105-X12
Wet	

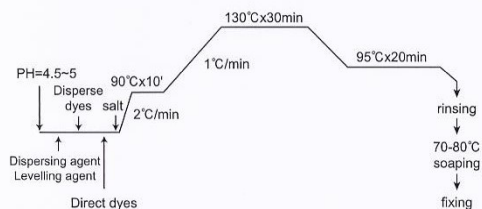
4.3 Dyeing method for Everdirect Fast Black B-160, Black B-300, Black VSF 600



Remark : dyeing under pH 10.0~10.5

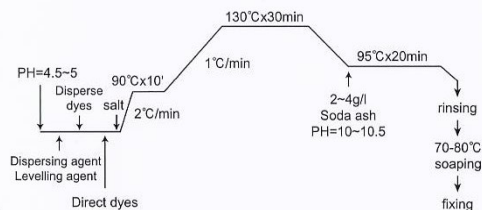
4.4 Polyester/Cotton blends dyeing :

Disperse/Direct dyes at one bath one step method :
(this method is widely recommended for Everdirect dyes, except Everdirect Black VSF 600)



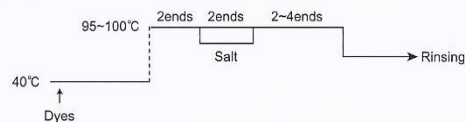
4.5 Polyester / Cotton blends dyeing :

Disperse/Direct dyes at one bath two steps method :
(Especially for Everdirect Black VSF 600)



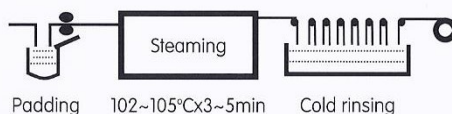
Remark : add direct dyes and salt at last step under 95°C, if disperse dyes is sensitive to salt.

5. Jigger dyeing



6. Pad-Steam :

- Everdirect dyes X g/l
- Wetting agent 2~5 g/l
- Urea 100 g/l
- Padding Pick-up 70~100%
- Guide into steamer for steaming 3~5min under saturated steam at 102~105°C.
- Then pass through 30g/l salt bath at 95°C.
- Cold rinsing



Remark : passage of salt bath will improve the color change after test of washing fastness.

Trichromatic combinations of Everdirect dyes

Items	Everdirect trichromatic
Pale-shade	Everdirect Supra Yellow RL
	Everdirect Supra Red BWS
	Everdirect Supra Blue BGL
	Everdirect Supra Blue 4BL
	Everdirect Supra Grey CGL
Medium-deep shade	Everdirect Supra Yellow RL
	Everdirect Supra Red BWS
	Everdirect Supra Brown GTL
	Everdirect Supra Rubine BL
	Everdirect Supra Blue BGL
	Everdirect Supra Blue 4BL
	Everdirect Supra Blue BRN
Deep red shade	Everdirect Supra Yellow RL
	Everdirect Light Rose FR
	Everdirect Light Scarlet F2G
Brilliant green shade	Everdirect Supra Yellow PG
	Everdirect Supra Turq. Blue FBL
	Everdirect Supra Turq. Blue GRL
	Everdirect Supra Blue FFRL
Brilliant turquoise shade	Everdirect Light Rose FR
	Everdirect Supra Blue BRL
	Everdirect Supra Blue FFRL
Black shade	Everdirect Fast Black VSF-600
	Everdirect Fast Black B-160
	Everdirect Fast Black B-300
	Everdirect Cupro Black HRN
	Everdirect Supra Yellow RL
	Everdirect Supra Rubine BL
	Everdirect Supra Red BWS

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Everdirect dyes

Everdirect dyes are in character with direct property and widely being used for various cellulose fibers.

1. Exhaust dyeing method

General method indicated as below :

- Preheat fresh bath at room temperature, add 0~1g/l levelling agent, then add well-dissolved dyes steadily.
- Heat to demand temperature 95°C~100°C.
- Add salt (common salt or Glauber's salt) depending on depth, under slow manner by portionwise.
- Hold 30~50mins at 95~100°C.
- Drain, over-flow rinse, cold rinse.
- Addition of 2~4g/l soda ash under pH10~10.5 for Everdirect Black VSF600, Black B-160, B-300 is essential.

2. Post-treatment after dyeing

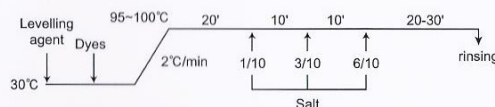
Cold rinsing after dyeing is recommended. Proper fixing treatment by adding fresh bath will promote wet fastness.

3. Salt recommendation of Everdirect

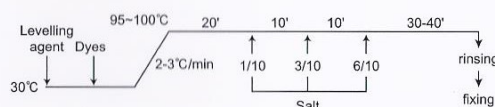
Dyeing depth	Salt usage
Very pale (below 0.05%)	0~2g/l
Pale to medium (0.05~1.0%)	2~5g/l
Medium to heavy (1.0~4%)	5~10g/l
Very heavy (above 4%)	20g/l

4. Exhaust dyeing method of Everdirect dyes

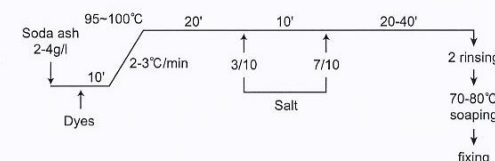
4.1 Pale to medium shade



4.2 Medium to heavy shade



4.3 Dyeing method for Everdirect Fast Black B-160, Black B-300, Black VSF 600

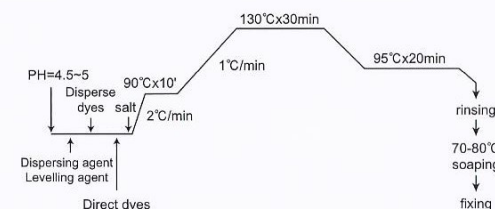


Remark : dyeing under pH 10.0~10.5

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Disperse/Direct dyes at one bath one step method :

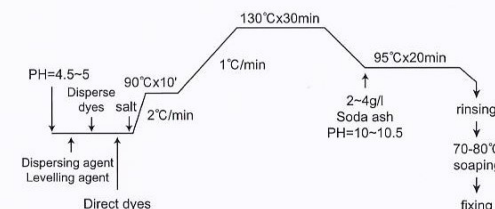
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(Especially for Everdirect Black VSF 600)



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