Notes

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-

Evercion H-E Evercion ESL

Reactive Dyes

Dyes for cellulose & regenerated cellulose fibers



RHM007E,2014/09,740

Evercion®

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English

Everlight Chemical Industrial Corporation

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> Everlight Chemical

Evercion H-E & Evercion ESL dyes

Evercion H-E & Evercion ESL dyes are reactive dyes for dyeing natural cellulose fibers or regenerated cellulose fibers and their blends.

Evercion H-E & Evercion ESL dyes offer the following advantages:

- cost-effectiveness, excellent build-up
- high exhaustion, high fixation
- excellent levelling properties
- high color yield
- easy wash-off
- versatile application
- excellent compatibility
- excellent fastness properties
- reliable reproducibility: "Right First Time"
- environmentally friendly leading to less waste water treatment

Evercion H-E & Evercion ESL dyes application:

- piece dyeing
- package & hank dyeing
- jig dyeing

								Ever
Evercion H-E & Evercion ESL Color	Yellow H-E6G	Yellow H-E4G	Yellow H-E4R	Orange E2G	Orange H-ER	Scarlet E2G	Scarlet H-E3G	
on Cotton								
Solubility(g/l)	50°C	70	50	100	100	40	90	100
_ightfastness (Xenon test)	Rating of 0.3%	3-4	4-5	5	3	3	3-4	3-4
SO 105-B02	Rating of 3%	5	5-6	6	5-6	4	5	4-5
ight-fastness to Perspiration- Alkali (Xenon test) Modified ISO 105-B02	3%	5	5-6	5-6	5-6	3-4	5	4-5
	E	5	5	5	4-5	4-5	4-5	5
Fastness to Vashing ISO 105-C02 (50°C x 45')	С	5	5	5	4	3-4	4	4-5
100 100 00 <u>1</u> (00 0 X 40)	N	5	5	5	5	5	5	5
	Е	5	5	5	5	4-5	4-5	5
Fastness to Vashing ISO 105-C06-C2S (60°C x 30')	С	5	5	5	3-4	4	4	4
vacining 100 100 000 020 (00 0 x 00)	N	5	5	5	5	5	5	5
	E	4-5	5	4-5	4	4-5	4-5	5
Fastness to Vater (37°C x 4hr)	С	5	5	5	4	4	5	3-4
100 100 E01 (07 0 X 4111)	N	4-5	4-5	4	4-5	3	4-5	3-4
	E	4-5	4-5	4-5	4	3-4Y	4-5	4-5
Fastness to Perspiration acid) ISO 105-E04 (37°C x 4hr)	С	4-5	4-5	4	4	3-4	4	3-4
100 100 204 (07 0 % 4.11)	N	4-5	5	4	4	3-4	5	3-4
	Е	4-5	4-5	4-5	4-5	4Y	4-5	4-5
astness to Perspiration alkali)	С	4-5	5	4	4	3-4	4	4-5
.55 100 204 (07 5 x 4111)	N	4-5	5	5	4-5	3-4	5	5
astness to Chlorinated Water(20ppm) ISO 105-E03 (27°Cx1hr)	Е	4R	3	4	4	4	4-5	3-4
Castrona to Dubbin a 100 tos Via	Dry	5	4-5	4-5	4-5	5	4-5	5
Fastness to Rubbing ISO 105-X12	Wet	4-5	4	3-4	3-4	3	2-3	3
Fastness to Dry Cleaning ISO 105-D01 (27°C x 1hr)	Е	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Multicycle Laundering - M&S C10A(UK-TO)60°Cx30'	Е	4-5	4-5	4-5	4-5	4-5	4-5	4-5

^{2.} All wet & rubbing fastness test for colored shades were performed at 3% dye o.w.f. Depths of colored shades for light-fastness testing were 0.3 & 3%. Depth of alkaline perspiration light-fastness test for colored shade was 3%.

Everción H-E										Evercion ESL									
Yellow H-E6G	Yellow H-E4G	Yellow H-E4R	Orange E2G	Orange H-ER	Scarlet E2G	Scarlet H-E3G	Red H-E3B	Red H-E7B	Blue H-EGN	Blue H-ERD	Navy Blue H-ER	Green H-E4BD	Turq. H-A	Yellow ESL	Deep Red ESL	Red ESL	Crimson ESL	Navy ESL	
70	50	100	100	40	90	100	140	150	100	100	100	120	100	100	100	100	100	70	
3-4	4-5	5	3	3	3-4	3-4	4	3-4	5-6	5-6	3-4	3	4-5	5	3-4	3-4	4	3-4	
5	5-6	6	5-6	4	5	4-5	4-5	4-5	6	6	4-5	4	5	5-6	5	4-5	5-6	4-5	
5	5-6	5-6	5-6	3-4	5	4-5	4-5	4-5	5	5	4	3-4	4	5-6	4-5	5	4	4-5	
5	5	5	4-5	4-5	4-5	5	4-5	4-5	5	5	4-5	5	5	5	5	4-5	4-5	4-5	
5	5	5	4	3-4	4	4-5	4-5	3-4	4-5	3-4	4	4	3-4	4-5	4-5	3-4	4-5	4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
5	5	5	5	4-5	4-5	5	5	5	5	4-5	4-5	5	4-5	5	5	5	4-5	4-5	
5	5	5	3-4	4	4	4	4-5	4-5	4	4	4	4	3-4	4-5	4-5	4-5	4-5	4	
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
4-5	5	4-5	4	4-5	4-5	5	5	5	5	5	4-5	4-5	5	5	4-5	5	4-5	5	
5	5	5	4	4	5	3-4	4	3	3-4	3-4	4	3-4	4-5	4	4	3-4	4-5	3-4	
4-5	4-5	4	4-5	3	4-5	3-4	3-4	2-3	3	5	3-4	3	3-4	4	4	5	4-5	5	
4-5	4-5	4-5	4	3-4Y	4-5	4-5	4	4B	4	4	4-5	4-5	5	4-5	4-5	4B	4-5	4B	
4-5	4-5	4	4	3-4	4	3-4	4-5	3	3-4	3-4	4-5	2-3	4-5	4-5	4-5	3	4-5	3	
4-5	5	4	4	3-4	5	3-4	4-5	3-4	4	4	3-4	3	4-5	4-5	4-5	3-4	4-5	3-4	
4-5	4-5	4-5	4-5	4Y	4-5	4-5	4	4-5	4	4	4-5	4-5	4-5	4-5	5	4-5	4-5	4-5	
4-5	5	4	4	3-4	4	4-5	4-5	4	3-4	3-4	4-5	3	4-5	4-5	5	4	4-5	4	
4-5	5	5	4-5	3-4	5	5	5	5	4-5	4-5	5	5	5	5	5	5	5	5	
. 4R	3	4	4	4	4-5	3-4	3B	3-4B	1	1	4-5	2	3	4Y	3	3-4B	4-5	3-4B	
5	4-5	4-5	4-5	5	4-5	5	5	5	5	5	4-5	5	5	5	5	5	5	5	
4-5	4	3-4	3-4	3	2-3	3	2-3	2-3	3	3	2-3	2-3	2-3	3-4	3	2-3	3	2-3	
4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5	4-5	*	4-5	
4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	

3% dye o.w.f. Depths of colored shades for light-fastness testing olored shade was 3%.

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- jig dyeing

	Evercion H-E & Evercion ESL Colors on Cotton
50°C	Solubility(g/l)
Rating of 0.3%	Lightfastness (Xenon test)
Rating of 3%	ISO 105-B02
3%	Light-fastness to Perspiration- Alkali (Xenon test) Modified ISO 105-B02
E	
С	Fastness to Use Washing ISO 105-C02 (50°C x 45')
N	vasining 100 103-002 (30 0 x 43)
E	
С	Fastness to
N	Washing ISO 105-C06-C2S (60°C x 30')
Е	
С	Fastness to
N	Water ISO 105-E01 (37°C x 4hr)
Е	
С	Fastness to Perspiration
N	(acid) ISO 105-E04 (37°C x 4hr)
E	
С	Fastness to Perspiration
N	- (alkali) ISO 105-E04 (37°C x 4hr)
E	Fastness to Chlorinated Water(20ppm) ISO 105-E03 (27°Cx1hr)
Dry	, , , , , , , , , , , , , , , , , , , ,
Wet	Fastness to Rubbing ISO 105-X12
E	Fastness to Dry Cleaning ISO 105-D01 (27°C x 1hr)
	r dottioos to bry Oleaning - 100 100-bot (27 C X IIII)

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2. Exhaust dyeing method

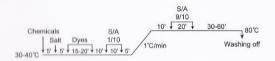
2-1. Portionwise addition of salt



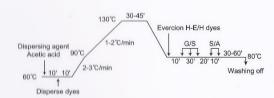
2-2. Salt at start



2-3. Evercion reference dyeing method



2-4. One-bath two-stage dyeing method of T/C blends



Evercion H-E & Evercion ESL trichromatic dyes

items	Evercion H-E trichromatic	Evercion ESL trichromatic
pale-shades	Evercion Yellow H-E4R Evercion Red H-E3B Evercion Blue H-ERD	
medium- heavy shades	Evercion Yellow H-E4R Evercion Red H-E7B Evercion Navy Blue H-ER	Evercion Yellow ESL Evercion Red ESL Evercion Crimson ESL Evercion Navy ESL
scarlet	Evercion Red H-E3B Evercion Orange H-ER (or Evercion Scarlet E2G)	
jade, grass green	Evercion Yellow H-E6G Evercion Turquoise H-A (or Evercion Yellow H-E4G)	
aqua, turquoise	Evercion Turquoise H-A Evercion Blue H-EGN	
royal	Evercion Blue H-EGN Evercion Red H-E7B	
burgundy maroon	Evercion Yellow H-E4R Evercion Red H-E3B Evercion Navy Blue H-ER	Evercion Yellow ESL Evercion Red ESL Evercion Crimson ESL Evercion Navy ESL
dark green Evercion Navy Blue H-ER Evercion Yellow H-E4R		
Evercion Yellow H-E4R deep navy Evercion Red H-E7B Evercion Navy Blue H-ER		

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Global Service

1. Fastness properties were tested in accordance with SN-ISO 105 and carried out under our laboratory conditions.

Fastness properties

- 2. All wet & rubbing fastness test for colored shades were performed at 3% dye o.w.f.
- 3. Depths of colored shades for light-fastness testing were 0.3 & 3%.
- 4. Depth of alkaline perspiration light-fastness test for colored shade was 3%.

Salt and alkali recommendation of Evercion H-E & Evercion ESL dyes in exhaust dyeing

	Glauber's salt or	common salt (g/l)	Alk	Alkali (g/l)			
depth	Unmercerized cotton	Mer. cotton, Viscose rayon	Soda ash	Soda ash + Caustic soda	time (min)		
<0.5%	30	20	10	5+0.2	30		
0.5~1%	40	30	15	5+0.2	45		
1~2%	50	40	15	5+0.2	45		
2~3%	60	50	20	5+0.2	60		
3~4%	70	60	20	5+0.2	60		
4%<	90	65	20	5+0.2	60		

Remark: (1) The purity of Glauber's salt is 100%.

(2) Concentration of caustic soda: 38°B'e.

Information about dyeing temperature

Suitable for all Evercion H-E & Evercion ESL 80°C: dyes. For dyeing, precise temperature control and alkali addition will enhance the levellness and reproducibilit.

1-2. Jig dyeing method

1-1. Winch, jet dyeing

General dyeing method introduction

- heat to the desired temperature gradually.

benefit the levelness and reproducibility.

dyebath at room temperature,

over the next 60-90 min.

Remark:

- dyes, salt and partial alkali are added to the

- hold 10-20 min, add the rest of the alkali and dye

Automatic dosing system for dyes and alkali will

passage	Temp.(°C)	Step
1	30	1/2 dyes addition, wetting agent
2	30	1/2 dyes addition
3	30	1/2 salt addition
4	30	1/2 salt addition
5-6	50	no additions
7	80	1/2 soda ash addition
8	80	1/2 soda ash addition
9-12	80	no additions(at least 40-60mins)

1-3. Wash-off process (Recommended)

Bath	Temp.(°C)	Time(min)	Function
1	30-50	10-15	cold rinsing or over-flow rinsing
2	60-70	10-15	warm rinsing
3	80-98	10-15	hot rinsing
4	98	10-15	soaping
5	60-70	10-15	warm rinsing
6	30-50	10-15	cold rinsing
7	30-50	10-15	softening & fixing

Remark:

- 1. Depending on the depth of shade, bath liquor ratio and liquor retention on dyed substrate, the number of rinse baths at 30-50°C can be adjusted accord-
- 2. A sequestering agent with dispersing property is needed in soaping bath, if processing water is too
- 3. Ensure that the final pH before finishing is weakly acid or neutral.