



BILACTIVE P DYES

10 g/kg	40 g/kg	PRODUCT NAME	C.I NO.
		BILACTIVE BRILLIANT YELLOW P8G	-
		BILACTIVE YELLOW P6GS	Y 95
		BILACTIVE BRILLIANT YELLOW P4G	Y 18
		BILACTIVE YELLOW P2RN	O 12
		BILACTIVE ORANGE P3R	O 13
		BILACTIVE RED PB	R 24
		BILACTIVE RED P4B	R 245
		BILACTIVE RED P6B	R 218
		BILACTIVE RED P8B	R 31
		BILACTIVE MAGENTA PB	V 46
		BILACTIVE PURPLE P3R	V 1

PROCESS SUITABILITY							LIGHT FASTNESS				SOLUBILITY (g/l)	WASHING		
Printing	Warm Exhaust	Cold Pad Batch	Pad Dry Pad Steam	Pad Dry Steam	Pad Dry Thermofix	Econtrol ®	(AATCC 16 E)		(ISO B02)			C06/C2		
							1/1 SD	1/3 SD	1/1 SD	1/3 SD		Water 30°C	Effect	Stain (cotton)
S	NS	NS	S	S	S	NS	4	4	5-6	5-6	120	4-5	4-5	4-5
S	NS	NS	S	S	S	S	5	4-5	6	5	100	4-5	4-5	4-5
S	NS	NS	S	S	S	S	5	4-5	6-7	6-7	100	4-5	4-5	4-5
S	NS	NS	S	S	S	S	5	4-5	6-7	6	200	4-5	4	4-5
S	NS	NS	S	S	S	NS	4	3-4	5	5	200	4-5	4-5	4-5
S	NS	NS	S	S	S	S	4	3-4	5-6	5	120	4-5	4-5	4-5
S	NS	NS	S	S	S	S	4	3-4	4	3	200	5	4-5	4-5
S	NS	NS	S	S	S	NS	4	3	4-5	3-4	100	4-5	4-5	4-5
S	NS	NS	S	S	S	NS	4	3-4	5	4-5	150	4-5 Y	4-5	4-5
S	NS	NS	S	S	S	S	4	3-4	4	3-4	200	4-5	4	4-5
S	NS	NS	S	S	S	S	5	4-5	6	6	100	4-5	4-5	4-5

PERSPIRATION						CHLORINATED WATER				REPEATED DOMESTIC WASHING
M&S C7 (ACIDIC)			M&S C7 (ACIDIC)							
Effect	Stain (Cotton)	Stain (Nylon)	Effect	Stain (Cotton)	Stain (Nylon)					
4-5	5	5	4-5	4-5	4-5	$\frac{4}{R}$	4-5	4	5	$\frac{4}{R}$
4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4	5	4
4-5	4-5	5	4-5	4-5	4-5	4-5	4-5	4	5	4
4	4	4-5	4-5	4	4-5	4-5	4-5	3-4	4-5	$\frac{4}{Br}$
4-5	4-5	4-5	4-5	4-5	4-5	$\frac{4-5}{Y}$	4-5	4	4-5	4-5
$\frac{4}{BL}$	4	4	$\frac{4-5}{BI}$	4	4	$\frac{4}{Y}$	4-5	4	4-5	$\frac{4}{Br}$
4-5	4-5	4	4-5	4-5	4-5	$\frac{4}{Y}$	4-5	4	4-5	4-5
4-5	3-4	3	4-5	3-4	4	4	4-5	4	4	4
4-5	4	4	4-5	4	4-5	4-5	4-5	4	4-5	$\frac{4}{Br}$
4-5	4-5	4-5	$\frac{4-5}{BI}$	4-5	4-5	$\frac{3}{DI}$	4-5	4	4	2
$\frac{4-5}{BI}$	4-5	4-5	$\frac{4}{R}$	4-5	4-5	4	4-5	3-4	5	3-4



BILACTIVE P DYES

10 g/kg	40 g/kg	PRODUCT NAME	C.I NO.
		BILACTIVE TURQUOISE BLUE PA	BL 71
		BILACTIVE TURQUOISE BLUE PGR	BL 72
		BILACTIVE BRILLIANT BLUE P3R	BL 49
		BILACTIVE BROWN P6R	BRN 11
		BILACTIVE RED BROWN P4R	BRN 9
		BILACTIVE BLUE P5R	BL 13
		BILACTIVE NAVY BLUE P2R	BL 39
		BILACTIVE GREY PNG	MIXTURE

40 g/kg	80 g/kg	PRODUCT NAME	C.I NO.
		BILACTIVE BLACK PN	BLK 8
		BILACTIVE BLACK PGR	MIXTURE

PROCESS SUITABILITY							LIGHT FASTNESS				SOLUBILITY (g/l)	WASHING		
Printing	Warm Exhaust	Cold Pad Batch	Pad Dry Pad Steam	Pad Dry Steam	Pad Dry Thermofix	Econtrol ®	(AATCC 16 E)		(ISO B02)			C06/C2		
							1/1 SD	1/3 SD	1/1 SD	1/3 SD		Water 30°C	Effect	Stain (cotton)
S	NS	NS	S	S	S	S	5	4-5	6	5-6	60	4-5	3-4	4
S	NS	NS	S	S	S	S	5	4-5	6-7	6	200	4-5	4-5	4-5
S	NS	NS	S	S	S	NS	5	4-5	6-7	6	200	4-5 R	4-5	5
S	NS	NS	S	S	S	S	5	4-5	6-7	6	150	4-5	4	5
S	NS	NS	S	S	S	NS	4-5	4	6	5	100	4Y	4-5	4-5
S	NS	NS	S	S	S	NS	4-5	4	6	5-6	60	4-5 R	4-5	4-5
S	NS	NS	S	S	S	S	4	3-4	4	3-4	150	4-5	4-5	5
S	NS	NS	S	S	S	S	4	3-4	3-4	3	200	4-5	4-5	5

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2/1

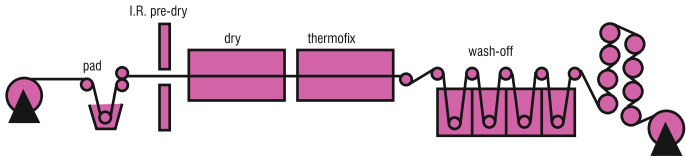
S	NS	NS	S	S	S	NS	4-5	-	5-6	-	60	4 G	4	4-5
S	NS	NS	S	S	S	NS	4	-	5	-	200	5	4-5	5

PERSPIRATION						CHLORINATED WATER				REPEATED DOMESTIC WASHING
M&S C7 (ACIDIC)			M&S C7 (ACIDIC)							
Effect	Stain (Cotton)	Stain (Nylon)	Effect	Stain (Cotton)	Stain (Nylon)					
4-5	4-5	4-5	4-5	4	4-5	4-5	3-4	3	4-5	$\frac{4}{R, BI}$
4-5	4	4	4-5	3-4	4	$\frac{4}{Y}$	3	3-4	4-5	$\frac{4-5}{BI}$
4-5	4-5	4-5	4-5	4-5	4-5	$\frac{4}{DI}$	4-5	4	4-5	$\frac{4-5}{Br}$
4	4	4	4	4	4-5	4	4-5	4	5	4-5
4-5	4	4	$\frac{4}{G}$	3-4	4-5	4-5	4-5	4	5	4
4-5	4-5	4-5	$\frac{3-4}{G}$	4-5	4-5	$\frac{3}{R}$	4-5	4	4-5	$\frac{3-4}{Br}$
4	4-5	4-5	$\frac{4}{G}$	4-5	4-5	$\frac{4}{G}$	4-5	4	4-5	3-4
4-5	4-5	4-5	$\frac{4}{G}$	4	4-5	4	4-5	4	4-5	3-4

4-5	$\frac{4-5}{G}$	4	3-4	3-4	4-5	4-5	4-5	4	4-5	3-4
5	4-5	4-5	5	4-5	4-5	$\frac{3-4}{G}$	5	4	4-5	4

CONTINUOUS DYEING

Pad – Dry – Thermax Method

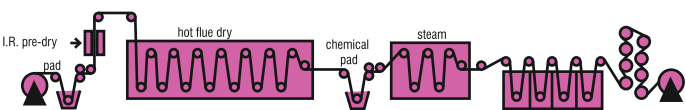


Mixing pump required:
Pad: dye, wetting agent, mild oxidant, anti – migrant, sequestering agent, alkali, urea

DYESTUFF (g/l)	SODA ASH (g/l)	UREA (g/l)
<20	10	100
20 – 50	15	150
>50	20	200

IR Pre – dry, Dry: 110 – 130°C
Thermax: 2-3 mins at 160°C

Pad – Dry – Chemical Method – Steam Method



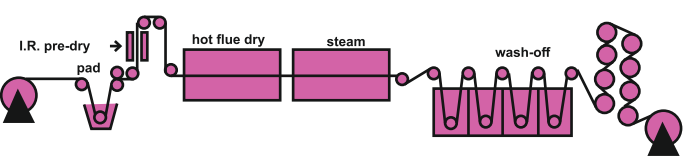
Pad: dye, wetting agent, mild oxidant, anti – migrant
IR pre – dry
Dry: 110 – 130°C Chemical pad:

DYESTUFF (g/l)	SODA ASH (g/l)	UREA (g/l)
<20	10	100
20 – 50	15	150
>50	20	200

Steam: 75 – 90 secs at 102°C

CONTINUOUS DYEING

Pad – Dry – Thermax Method

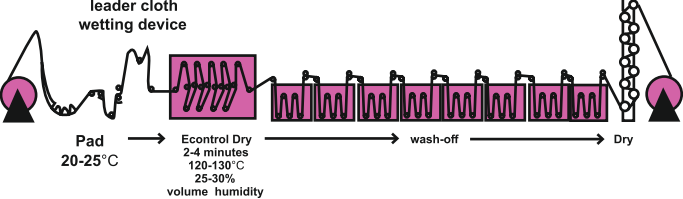


Mixing pump required:
Pad: dye, wetting agent, mild oxidant, anti – migrant, 50 100g/l urea, alkali

DYESTUFF (g/l)	SODA ASH (g/l)	UREA (g/l)
<20	10	100
20 – 50	15	150
>50	20	200

IR Pre – dry, Dry: 110 – 130°C
Thermax: 2-3 mins at 160°C

Econtrol® Method



Mixing pump required:
Pad: dye, wetting agent, mild oxidant, anti – migrant, sequestering agent, alkali

DYESTUFF (g/l)	SODA ASH (g/l)	UREA (g/l)
<20	10	100
20 – 50	15	150
>50	20	200

Fixation time 2 - 4 mins
Econtrol is a registered trademark of
DyStar Colours Deutschland GmbH

CUSTOMER BENEFITS

- + Easy wash - off
- + Excellent reproducibility
- + Good repeated domestic washing
- + Excellent perborate wet fading fastness from most dyes
- + High light fastness selection available

DYE SELECTION

Pale Shades

- + Bilacitve Yellow P6GS
- + Bilacitve Brown P6R
- + Bilacitve Grey PNG

Support Dyes

- + Bilacitve Brilliant Yellow P8G
- + Bilacitve Brilliant Yellow P4G
- + Bilacitve Orange P3R
- + Bilacitve Red P6B
- + Bilacitve Red PB
- + Bilacitve Red P8B
- + Bilacitve Magenta PB
- + Bilacitve Turquoise Blue PA
- + Bilacitve Turquoise Blue PGR
- + Bilacitve Red Brown P4R
- + Bilacitve Blue P5R
- + Bilacitve Black PGR
- + Bilacitve PN

Medium – Heavy Shades

- + Bilacitve Yellow P2RN
- + Bilacitve Red P4B
- + Bilacitve Navy P2R

ABBREVIATIONS

- + BI – Bluer
- + DI – Duller
- + Y- Yellower
- + Br – Brighter
- + G – Greener
- + S- Suitable
- + Dk – Darker
- + R – Redder
- + NS – Not Suitable

PRINTING

STEAM FIXATION

	Stock Paste
Bilactive P Dye	X
Urea*	200
Water	Y
Sodium Alginate (6% Pate)	500
Resist Salt	10
Sodium Carbonate / bi carbonate	15 / 20
Bulk to	1,000

□Cotton 50-100 parts, Viscose 100-200 parts
Print - Dry - Steam (5-10 minutes at 100° - 102°C) Wash-Dry

DRY - HEAT FIXATION

	Stock Paste
Bilactive P Dye	X
Urea*	200
Water	Y
Sodium Alginate (6% Pate)	500
Resist Salt	10
Sodium Carbonate / bi carbonate	15 / 20
Bulk to	1,000

Process not recommended for Viscose
Print Dry - Bake (1-5 minutes at 200°- 150°C) Wash-Dry

HIGH TEMPERATURE STEAM FIXATION

	Stock Paste
Bilactive P Dye	X
Urea*	200
Water	Y
Sodium Alginate (6% Pate)	500
Resist Salt	10
Sodium Carbonate / bi carbonate	15 / 20
Bulk to	1,000

□Cotton 50-100 parts, Viscose 100-200 parts
Print - Dry - Steam (7 minutes at 102°C) Wash-Dry



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BILACTIVE P DYES
(REACTIVE DYES)

