



PT BIPORIN AGUNG
FULLY INTEGRATED COLORANTS COMPANY



BIPOACTIVE



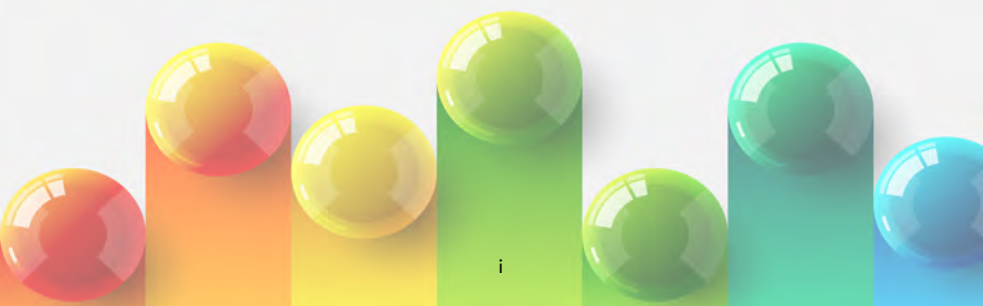
REACTIVE DYES

Your Best
Solution
for Dyeing



CONTENTS

General information		Page
1.	About The Company	1
2.	Conventional Dyes	2
3.	BIPOACTIVE REACTIVE DYES	2
	• BIPOACTIVE SERIES	
4.	BI-FUNCTIONAL Reactive Dye Series	5
	• Table Details	
5.	HETERO BI-FUNCTIONAL Reactive Dye Series	9
	• Table Details	
6.	SPECIAL BI-FUNCTIONAL Reactive Dye Series	13
	• Table Details	
7.	GENERAL VINYL SULFONIC TYPE REACTIVE DYE SERIES	17
	• Table Details	
8.	VS TYPE REACTIVE DYE SERIES FOR COLD PAD BATCH (CPB) PROCESS	19
	• Table Details	
9.	FASTNESS PROPERTIES	20
	• Dyeing Condition	
10.	Dyeing Procedure	21



ABOUT THE COMPANY



FACTORY LOCATION

Cikupa, Tangerang,
INDONESIA (25,590 sqm)

EMPLOYEES 200 persons

INSTALLED PRODUCTION CAPACITY

REACTIVE DYES : 6000 ton/year
REACTIVE INKS & AUXILIARIES : 2000 ton/year

Established in 1987, in Tangerang, Indonesia, BIPORIN expanded its business within five years, to manufacture reactive and disperse dyes.

With BIPORIN's innovative and uncompromising high standards of manufacturing, the company gained its reputation as the one which provides excellent, efficient yet sensibly priced textile dyestuffs and chemical products and services catering beyond Indonesia's domestic market to cover the world market including E.U. and East Europe, Turkey, West Asia, Japan, China, South East Asia, Africa, South Asia etc.

Now the company has grown into a 200 persons strong company with manufacturing facilities equipped with three medium capacity and two large capacity spray dryers,

producing 6000 metric tonnes of dyestuff products per year. The marketing and distribution arm itself backed with trusted trading companies has extensive market networks all over the world.

Since 2014, armed with extensive background in producing textile dyes, BIPORIN introduced its innovative and ground breaking range of ECOINK textile inks for high-speed industrial inkjet printers. In many years to come, BIPORIN, with its values and philosophies, is committed to continuously delivering many more innovative and excellent textile colorants and chemical products.



CONVENTIONAL DYES



Available in Spray-dried semi granular form, commonly used in conventional dyeing house and textile printers and in, Highly-purified liquid form, commonly used in fully automated continuous dyeing house & textile printers with automated color kitchen, or as input for textile ink formulation.



BI-FUNCTIONAL Reactive Dye Series

- Bipoactive YELLOW DE-XF*
- Bipoactive RED DE-XF
- Bipoactive Red DE-LF*
- Bipoactive BLUE DE-NF
- Bipoactive BLUE DE-LF (R)
- Bipoactive DE3GL (150%)
- Bipoactive YELLOW BRN
- Bipoactive YELLOW DE-SR
- Bipoactive YELLOW DE-S3R
- Bipoactive RED DE-2GF
- Bipoactive RED DE-2BL
- Bipoactive RED BRN

Note:

* Pale shades, with high light fastness



HETERO BI-FUNCTIONAL Reactive Dye Series

- Bipoactive YELLOW SPE
- Bipoactive BRILLIANT RED SPE
- Bipoactive RUBINE SPE
- Bipoactive CRIMSON SPE
- Bipoactive ORANGE DE-S3R
- Bipoactive SIERRA BLUE SP-LF
- Bipoactive NAVY BLUE SPE
- Bipoactive ORANGE E-SD*
- Bipoactive RED E-SD*
- Bipoactive NAVY BLUE E-SD*

Note:

* Super Deep Shades Hetero-bifunctional Reactive Dyes



Special BI-FUNCTIONAL Reactive Dye Series

- Bipoactive YELLOW 3GF 150%
- Bipoactive YELLOW 3RF 150%
- Bipoactive SCARLET 2GF 150%
- Bipoactive RED GF 150%
- Bipoactive RED 3BF 150%
- Bipoactive TURQUOISE BLUE BGF (N)
- Bipoactive NAVY BLUE BF
- Bipoactive BLACK B 150%
- Bipoactive BLACK WN-D
- Bipoactive BLACK DE-G (P)



General VINYL SULFONIC Type Reactive Dye Series

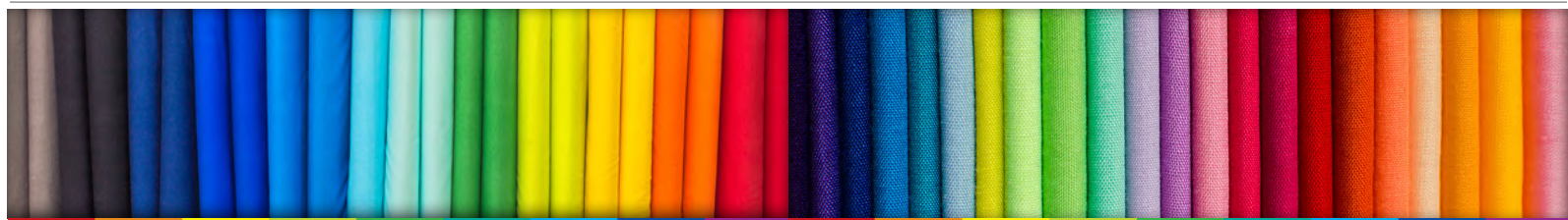
- Bipoactive YELLOW 2 GL (A) 150%
- Bipoactive GOLDEN YELLOW RNL 133%
- Bipoactive ORANGE 3R 135%
- Bipoactive RED RB 133%
- Bipoactive BLUE R (A) Sp
- Bipoactive BLUE R 150%
- Bipoactive NAVY BLUE BB 133%
- Bipoactive TURQUOISE BLUE G 250%
- Bipoactive NAVY BLUE GG












VS Type Reactive Dye Series for Cold Pad Batch (CPB) Process

- Bipoactive GOLDEN YELLOW RBS
- Bipoactive RED RBS
- Bipoactive BLUE RBS
- Bipoactive NAVY BLUE RBS



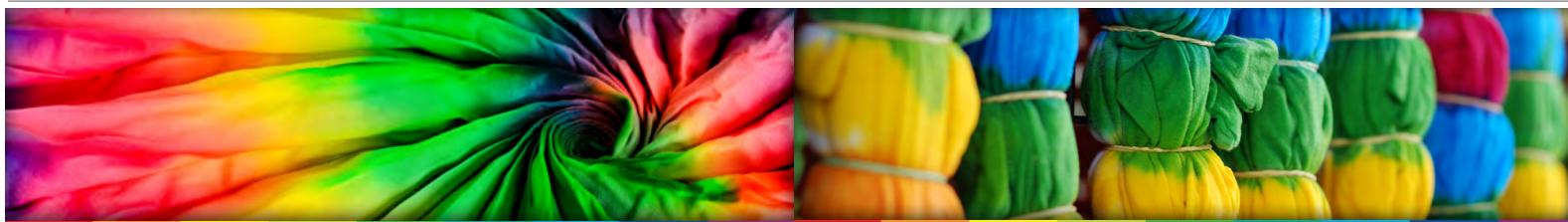









BI-FUNCTIONAL REACTIVE DYE SERIES		Dyeing depth (% o.w.f.)	SOLUBILITY		APPLICABILITY				DYEING PROPERTIES			FASTNESS PROPERTIES							
			Water, 25° C (g/l)	Alkali soln (g/l)	Exhaust Dyeing	Silicate CPB	Continuous Dyeing	Printing	Optimum dyg temp	Fixation (%)	Dischargeability	Light 1 / 1 1/6 (N/12)	Persp - light	Perspiration		Washing		Croaking	Chlorinated water
														Acid		Color change	Stain (cotton)		
			Alk	Change	Stain	Wet													
Yellow DE-XF*		2%	150	100	⊙	○	○	○	60	70	○	5 4-5	4 3-4	5 5	4 4	5	4-5	4-5 4	
Red DE-XF		2%	150	100	⊙	○	○	○	60	70	X	5 3-4	3-4 3	4 4-5	4 4	4-5	4-5	4-5 3	4
Red DE-LF*		2%	150	100	⊙	○	○	○	60	70	○	5 4-5	4 3-4	4-5 4-5	4-5 4-5	4-5	4-5	4-5 3-4	3-4
Blue DE-NF		2%	150	100	⊙	○	○	○	60	70	X	5 4-5	4 3-4	4-5 4-5	4-5 4-5	5	5	4-5 3-4	3-4
Blue DE-LF (R)		2%	100	70	⊙	○	○	○	60	75	○	5 4-5	4 3-4	4-5 4	4-5 4	4-5	4	4-5 3-4	3-4
Yellow DE3GL (150%)		2%	100	—	⊙	X	X	△	80	75	△	5 4	4 3-4	5 5	5 5	5	5	5 4	4
Yellow BRN		2%	150	100	⊙	○	○	○	60	75	○	5 4-5	4 3-4	5 5	4 4	5	4-5	4-5 4	4
Yellow DE-SR		2%	100	80	⊙	△	△	△	60	83	○	5 4	5 4	4-5 4	4 4	4	4	4-5 3-4	4
Yellow DE-S3R		2%	100	80	⊙	△	△	△	60	80	○	5 4	4-5 4-5	4 4	4 4	4	4	4-5 3-4	4




BI-FUNCTIONAL REACTIVE DYE SERIES		Dyeing depth (% o.w.f.)	SOLUBILITY		APPLICABILITY				DYEING PROPERTIES				FASTNESS PROPERTIES								
			Water, 25° C (g/l)	Alkali soln (g/l)	Exhaust Dyeing	Silicate CPB	Continuous Dyeing	Printing		Optimum dyg temp	Fixation (%)	Dischargeability	Light 1 / 1 1/6 (T/12)	Persp - light	Perspiration		Washing		Crocking		Chlorinated water
								1 Bath	2 Bath						Acid	Alkali	Color change	Stain (cotton)	Dry	Wet	
Red DE-2GF		2%	100	80	⊙	○	○	○	60	78	○	4-5 3-4	4 3-4	4-5 4-5	4-5 4-5	4-5					5
Red DE-2BL		2%	150	100	⊙	○	○	○	60	70	○	5 4-5	4 3-4	4-5 4-5	4-5 4-5	4-5	4-5	4-5 3-4	3-4		
Red BRN		2%	150	100	⊙	○	○	○	60	75	X	5 3-4	3-4 3	4 4-4	4 4	4-5	4	4-5 3	4		
Orange DE-2RL		2%	100	60	⊙	△	△	○	60	75	X	4-5 4	4 3-4	4-5 5	4 4	4-5	4	3	4-5		
Blue DE-RF		2%	100	70	⊙	○	○	○	60	75	○	5 4-5	4 3-4	4-5 4	4-5 4	4-5	4	4-5 3-4	3-4		
N Blue DE-S2R		2%	100	100	⊙	○	○	○	60	80	△	4 3-4	3-4 3	4 4	3-4 3-4	5	4-5	4-5 3	4		
N Blue 3GS150%		2%	100	100	⊙	○	○	○	60	80	○	4-5 4	3-4 3	4 3-4	4 3-4	5	4-5	4-5 3	4		
N Blue DE-S2G		2%	150	80	⊙	△	△	○	60	75	○	3-4 3	3-4 3	5 4-5	5 4-5	5	4-5	4-5 3	3-4		
N Blue DE-SF		2%	150	100	⊙	○	○	○	60	80	○	4-5 4	3-4 3	4 3-4	4 3-4	5	4-5	4-5 3	2 - 3		

Note :

* Pale shades, with high light fastness

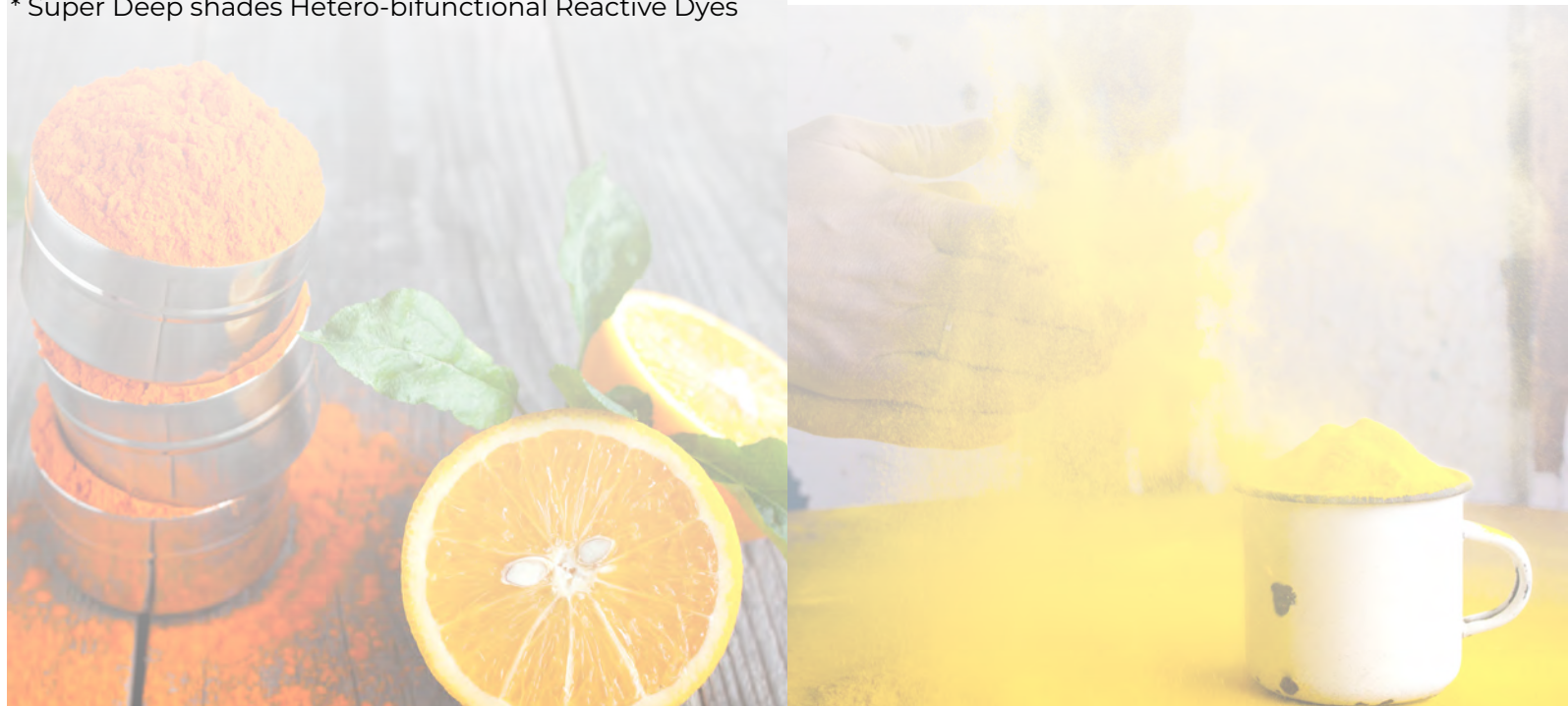


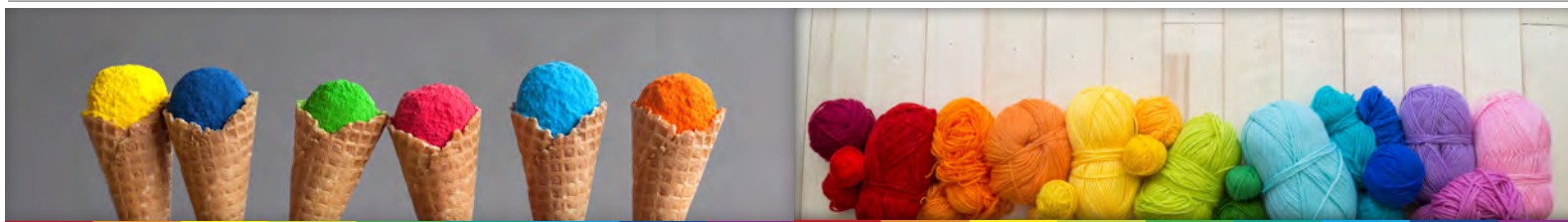
HETERO BI-FUNCTIONAL REACTIVE DYE SERIES		Dyeing depth (% o.w.f.)	SOLUBILITY		APPLICABILITY				DYEING PROPERTIES			FASTNESS PROPERTIES									
			Water, 25° C (g/l)	Alkali soln (g/l)	Exhaust Dyeing	Silicate CPB	Continuous Dyeing	Printing		Optimum dyg temp	Fixation (%)	Dischargeability	Light 1/1 1/6 (1/12)	Persp - light	Perspiration		Washing		Crocking		Chlorinated water
								1 Bath	2 Bath						Acid	Alkali	Color change	Stain (cotton)	Dry	Wet	
1 Phase	2 Phase	Acid	Alk	Change	Stain																
Yellow SPE		2%	100	80	⊙	△	○	○	60	80	○	4-5 4			4-5 4-5	4-5 4	4-5 4	4-5	4-5	4-5 3-4	
Brill Red SPE		2%	150	100	⊙	△	○	○	60	75	○	4 3-4	4 4	4 4-5	4 4-5	4	4	4 3-4	4		
Rubine DESF		2%	100	80	⊙	○	○	○	60	83	X	4-5 4	4 3-4	4-5 4-5	4-5 4-5	4-5	4-5	4-5 3-4	4		
Crimson SPE		2%	150	100	⊙	○	○	○	60	75	○	4 3-4	4-5 4	4 4	4 4	4	4-5	4-5 3	4		
Orange DE-S3R		2%	100	60	⊙	○	○	○	60	82	○	4-5 3-4	4 3-4	4-5 4-5	5 5	4-5	4-5	4 3-4	3		
Sierra Blue SP-LF		2%	100	80	○	○	○	○	60	75	X	5 4-5	4 3-4	4-5 4-5	4-5 4-5	4-5	4-5	4-5 3-4	2-3		
N Blue SPE		2%	150	100	⊙	○	○	○	60	84	○	4 3-4	3-4 3	4-5 4-5	4-5 4-5	4-5	4	4-5 3	3-4		

HETERO BI-FUNCTIONAL REACTIVE DYE SERIES		Dyeing depth (% o.w.f.)	SOLUBILITY		APPLICABILITY			DYEING PROPERTIES			FASTNESS PROPERTIES										
			Water, 25° C (g/l)	Alkali soln (g/l)	Exhaust Dyeing	Silicate CPB	Continuous Dyeing	Printing		Optimum dyg temp	Fixation (%)	Dischargeability	Light 1 / 1 1/6 (1/12)	Persp - light	Perspiration		Washing		Crocking		Chlorinated water
								1 Phase	2 Phase						Acid	Alkali	Color change	Stain (cotton)	Dry	Wet	
1 bath	2 bath	Change	Stain																		
Orange E-SD*		2%	100	60	☉	○	○	○	60	82	○	4-5 3-4			4 3-4	4-5 4-5	5 5	4-5	4-5	4 3-4	
Red E-SD*		2%	80	60	☉	○	○	○	60	90	○	4-5 4	4-5 4-5	4-5 4-5	4-5 4-5	4-5	4-5	4-5 3-4	4		
N Blue E-SD*		2%	150	100	○	○	○	○	60	80	○	4-5 3-4	3-4 3-4	4-5 4-5	4-5 4-5	5	4-5	4-5 3	2-3		




Note :

* Super Deep shades Hetero-bifunctional Reactive Dyes

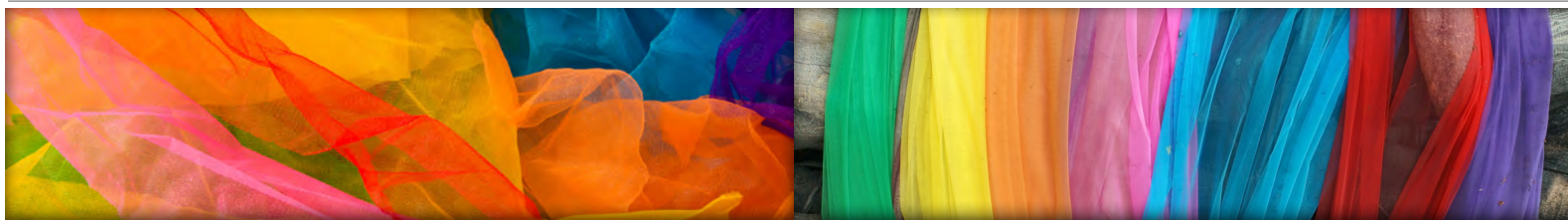




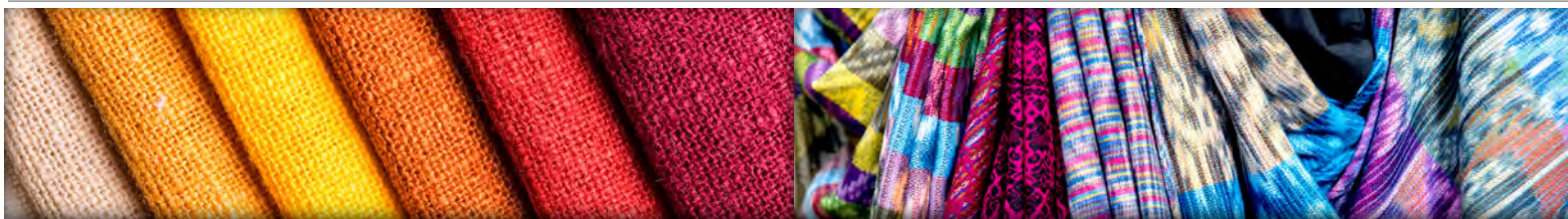
SPECIAL BI-FUNCTIONAL REACTIVE DYE SERIES		Dyeing depth (% o.w.f.)	SOLUBILITY		APPLICABILITY				DYEING PROPERTIES				FASTNESS PROPERTIES							
			Water, 25° C (g/l)	Alkali soln (g/l)	Exhaust Dyeing	Silicate CPB	Continuous Dyeing	Printing		Optimum dyg temp	Fixation (%)	Dischargeability	Light 1 / 1 1/6 (1/12)	Persp - light	Perspiration		Washing		Crocking	Chlorinated water
								1 Bath	2 Phase						Acid	Alkali	Color change	Stain (cotton)		
			2 Bath	Acid	Alk	Change	Stain			Wet										
Yellow 3GF 150%		2%						150	100		⊙	○	○	○	60	80	○	4-5 4	4	
Yellow 3RF 150%		2%	150	100	⊙	⊙	⊙	⊙	60	75	○	5	5 - 4	5	4	5	4-5	4-5 4	3-4	
Scarlet 2GF 150%		2%	150	100	○	○	○	○	60	80	△	4 3-4	3-4	4-5 4-5	4-5 4-5	4-5	4-5	4 3-4	4	
Red GF 150%		2%	100	80	○	○	○	△	60	70	○	5 4	3-4	4-5 4-5	4-5 4-5	4-5	4-5	5 3-4	3-4	
Red 3BF 150%		2%	150	100	⊙	⊙	⊙	⊙	60	75	X	4-5	4-5	4 4	4 4	4-5 4	4-5 4	4-5 3	4	
Turq Blue BGF (N)		2%	100	80	⊙	△	○	X	80	60	X	4 3-4	3	4-5 4-5	3-4 3	4-5	4	4 3-4	2-3	
N Blue BF		2%	100	100	⊙	⊙	⊙	⊙	60	80	○	5 4-5	5 4-5	4 4	3-4 3-4	5	4-5	5 3	3-4	





BIPOACTIVE BI-FUNCTIONAL REACTIVE DYE SERIES		Dyeing depth (% o.w.f.)	SOLUBILITY		APPLICABILITY				DYEING PROPERTIES			FASTNESS PROPERTIES									
			Water, 25° C (g/l)	Alkali soln (g/l)	Exhaust Dyeing	Silicate CPB	Continuous Dyeing	Printing		Optimum dyg temp	Fixation (%)	Dischargeability	Light 1 / 1 1/6 (1/12)	Persp - light	Perspiration		Washing		Crocking		Chlorinated water
								1 Phase	2 Phase						Acid	Alkali	Color change	Stain (cotton)	Dry	Wet	
			1 Bath	2 Bath	Acid	Alkali	Change	Stain													
Black B 150%		4%	150	100	⊙	⊙	○	○	50	80	○	4			3-4 3	5 5	5 5	5	5	4-5 3	
Black WN-D		6%	150	80	⊙	○	○	○	60	80	○	4	4 3-4	4-5 4-5	4-5 4-5	5	4-5	4-5 3	4		
Black DE-G (P)		4%	150	100	⊙	○	○	○	60	83	○	4	3-4 3	4-5 4-5	4-5 4-5	4-5	4-5	4-5 3	4		





GENERAL VINYL SULFONIC TYPE REACTIVE DYE SERIES	Dyeing depth (% o.w.f.)	SOLUBILITY		APPLICABILITY				DYEING PROPERTIES					FASTNESS PROPERTIES						
		Water, 25° C (g/l)	Alkali soln (g/l)	Exhaust Dyeing	Silicate CPB	Continuous Dyeing	Printing		Optimum dyg temp	Fixation (%)	Dischargeability	Light 1 / 1 1/6 (1/12)	Persp - light	Perspiration		Washing		Crocking	Chlorinated water
							1 Phase	2 Phase						Acid	Alkali	Color change	Stain (cotton)		
																		1 Bath	
Yellow 2GL (A) 150%		2%	100	60	⊙	○	○	○	60	82	○	4-5 3-4	4 3-4	4-5 4-5	5 5	4-5	4-5	4 3-4	
G YELLOW RNL 133%		2%	150	100	⊙	⊙	○	△	50	70	○	5 4	4 3-4	5 4-5	5 4-5	4-5	4-5	5 3-4	2-3
Orange 3R 135%		2%	90	70	⊙	△	○	△	50	55	○	5 4	3-4 3	5 5	5 5	5	5	5 3-4	2-3
Red RB 133%		2%	100	80	⊙	⊙	○	○	60	70	X	4-5 4	3-4 3	5 4-5	5 4-5	5	4-5	4-5 3	2-3
Blue R(A) SP		2%	150	100	⊙	⊙	○	○	55	70	X	5 4-5	4 4	5 5	5 5	4-5	5	5 3-4	3
Blue R 150%		2%	100	60	⊙	○	○	○	55	82	X	4-5 4-5	14 4	5 5	5 5	4-5	5	5 3-4	3
Blue BB 133%		2%	100	80	⊙	⊙	○	○	66	70	△	5 4-5	4 4	4-5 4	4-5 4	4	4-5	5 3-4	3
Turq Blue G 250%		2%	100	80	⊙	○	○	○	70 80	65	X	4-5 4	3-4 3	5 4	5 4	4	4	5 3-4	2
Navy Blue GG		2%	100	80	⊙	○	○	○	50	70	○	4 3-4	3-4 3	4-5 4	5 4	4-5	4-5	4-5 3	2-3



VS TYPE REACTIVE DYE SERIES FOR COLD PAD BATCH (CPB) PROCESS	Dyeing depth (% o.w.f.)	SOLUBILITY		APPLICABILITY				DYEING PROPERTIES				FASTNESS PROPERTIES								
		Water, 25° C (g/l)	Alkali soln (g/l)	Exhaust Dyeing	Silicate CPB	Continuous Dyeing	Printing		Optimum dyg temp	Fixation (%)	Dischargeability	Light 1 / 1 1/6 (N/12)	Persp - light	Perspiration		Washing		Crocking		Chlorinated water
							1 Bath	2 Bath						Acid	Alkali	Color change	Stain (cotton)	Dry		
		Acid	Alk	Change	Stain	Wet														
G Yellow RBS		2%	150	80	⊙		○	○	○	55-60	75	○	5 4	4 3-4	4-5 4-5	4-5 4-5	4-5	4-5	5 4	
Red RBS		2%	150	80	⊙	⊙	○	○	55-60	75	X	5 4	3 3-3	4-5 4	4-5 4	4-5	4-5	5 3	3-4	
Blue RBS		2%	100	80	⊙	⊙	⊙	○	55-60	75	△	4-5 4	3-4 3	4-5 4-5	4-5 4-5	4-5	4-5	4-5 3	3	
N Blue RBS		2%	150	80	⊙	○	○	○	55-60	75	○	4-5 4	3-4 3	5 5	5 5	5	5	5 3-4	3	



REMARKS**Symbols**

● = Excellent

○ = Good

△ = Applicable (Fair)

× = Unsuitable

FASTNESS PROPERTIES

Light* 1/1 depth, 1/6 depth,	AATCC 16E-20 hr, Xenon lamp
Perspiration-light (complex) 1/1 depth	GB/T 14576-1993 (acid and alkaline)
Perspiration	ISO 105 EO4 (acid and alkaline)
Washing	AATCC 61-Test 2A
Crocking (Rubbing)	AATCC 8 (dry and wet)
Chlorinated water	ISO 105 EO3, 20 ppm available chlorine

* FOR BLACK COLORS LIGHT FASTNESS CHECKED AT 2/1 DEPTH.

DYEING CONDITION

Material: Unmercerised knitted cotton

Dyeing method: Exhaust dyeing*

(*Red 7BF 200% is tested by CPB on unmercerised cotton woven)

SOLUBILITY

Water : 25°C (g/l)

Alkali solution : (g/l)

28 ml/l Caustic 40° Be

30 g/l Na₂SO₄**APPLICABILITY****Continuous dyeing :**

Upper = One bath pad steam

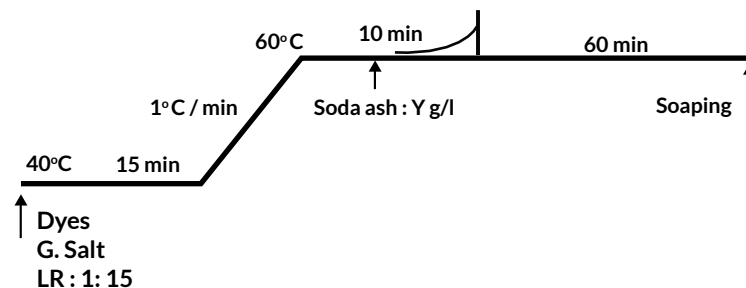
Lower = Two bath pad steam

Printing:

Upper = Print steam one phase

Lower = Two phase printing (silicate)

The information given in this pattern card is to the best of our present knowledge, true and correct at the time of issuance and are subject to change without prior notice. Since the conditions of use are beyond our control, no liability can be accepted on the basis of the recommendations or suggestions provided.

DYEING PROCEDURE:**AMOUNT OF G.SALT AND SODA ASH**

Depth of shade (% owf)	G.Salt (Na ₂ SO ₄) X g/l	Soda ash (Na ₂ CO ₃) Y g/l
Below 1.0%	25-40 g/l	10-15 g/l
1.0 - 2.0%	40-50 g/l	15-20 g/l
2.0 - 3.0%	50-60 g/l	20 g/l
3.0 - 5.0%	60-80 g/l	20 g/l



Reactive Dyes



BIPORIN'S main focus is Reactive dyes with specialization in vinyl-sulfone and bi-functional Reactive dyes.

In both categories we make the regular CI (Color index) commodities as well as specialized colors.

All are marketed under the Bipoactive brand name.

In general Vinyl-sulfone dyes are suited to exhaust dyeing, continuous (Pad-steam), semi-continuous methods (Silicate pad batch) and printing methods.



PT BIPORIN AGUNG

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GOTS
VERSION 6.0



Ø ZDHC

PT BIPORIN AGUNG has the production capability for tailor-made inks and dyes according to individual specifications of production needs & quality.



www.biporin.com