



Bodal Chemicals Ltd.

QUALITY COLOURS FOR YOUR SATISFACTION

BODACTIVE CF RANGE REACTIVE DYES



Bodal Chemicals Ltd.

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"Quality, The smart choice"



Bodal Chemicals Ltd.

BODACTIVE CF RANGE

BODACTIVE CF RANGE	Exhaust Dyeing		General Properties				Effect of Metals		Suitability for process	
			Solubility g/l		50 g/l Salt	Fixation Temp. (Exhaust Dyeing)				
	30°C	60°C	Water	Water			Copper	Iron	Exhaust	CPB
	1.0%	3.0%	Water	Water	50 g/l Salt	Fixation Temp. (Exhaust Dyeing)	Copper	Iron	Exhaust	CPB
BODACTIVE YELLOW CF-3G			100	120	50	60°C	4-5	4-5	S	NS
BODACTIVE YELLOW CF-RGB			120	160	80	60°C	4	4-5	S	S
BODACTIVE YELLOW CF-RSFL			120	160	80	60°C	4 BLD	4-5	S	S
BODACTIVE YELLOW CF-RSF			120	160	80	60°C	4 BLD	4-5	S	S
BODACTIVE YELLOW CF-S3R			100	120	80	60°C	4	4-5	S	S
BODACTIVE YELLOW BROWN CF-3R			100	120	80	60°C	4	4	S	S
BODACTIVE ORANGE CF-W3R			120	140	80	60°C	4	4	S	S
BODACTIVE ORANGE CF-R			70	80	20	60°C	4	4	S	NS
BODACTIVE SCARLET CF-R			80	100	50	60°C	4-5	4-5	S	S
BODACTIVE RED CF-G			100	100	50	60°C	4	4	S	S
BODACTIVE RED CF-2G			100	100	60	60°C	4	4	S	S
BODACTIVE RED CF-RGB			100	100	60	60°C	4 B	3-4	S	S
BODACTIVE RED CF-RSF			100	150	80	60°C	4-BL	4B	S	S

BODACTIVE CF RANGE

Dischargeability	Fastness Properties														Chlorinated Water 20mg/l Cl2	Rubbing		Mercerising		Hot Pressing		
	Light			Washing						Perspiration		Effect	Stain	Effect		Stain	Effect	Stain	Effect	Stain		
	ISO B02			C03		C04		C4A		E04												
	1/25	1/1	2/1	Effect	Stain	Effect	Stain	Effect	Stain	Effect	Stain	Acidic	Alkaline	Effect		Stain	Effect	Stain	Effect	Stain	Effect	Stain
ND	4-5	5	5-6	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4	4-5	3	4-5	4	4R	4-5	4-5	4-5	4-5	
ND	5	5-6	6	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4R	3-4	4RD	4-5R		
ND	5-6	6	6-7	4-5	4-5	4	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4R	3-4	4RD	4-5R		
ND	5-6	6	6-7	4-5	4-5	4	4	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4R	3-4	4RD	4-5R		
ND	5	5-6	6	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4R	3-4	4RD	4-5		
D	5	5	5-6	4	4-5	4	4-5	4	4-5	4	4-5	4	4-5	3-4	4-5	4	4	3-4	4R	4		
D	5	5	5-6	4	4-5	4	4-5	4	4-5	4	4-5	4	4-5	3-4	4-5	4	4	3-4	4R	4		
ND	3	4	4-5	4-5	4-5	4-5	4	4	4	4	4	4	4-5	3-4	4-5	3-4	3-4	4-5	3R	3-4R		
D	5	5-6	5-6	4-5	4-5	4	4	4	4	4-5	4-5	4-5	4-5	4	4	4	3-4	4	G	4-5		
ND	4	4-5	4-5	4-5	4-5	4	4	4	4	3-4	4	4	4-5	4	4-5	3-4	3-4	4-5	3R	3-4R		
ND	3-4	4	4-5	4-5	4-5	4	4	4	4	3-4	4	4	4-5	4	4	3-4	4	4-5	4	3-4R		
ND	3-4	4	4	4	4	4-5	4-5	4	4-5	4	4-5	4	4-5	3	4	4	3-4	4	4BL	4		
ND	4	4	4-5	4	4	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3	4-5	4	4	4	4-5	4-5		



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BODACTIVE CF RANGE

BODACTIVE CF RANGE

BODACTIVE CF RANGE	Exhaust Dyeing		General Properties				Effect of Metals				Suitability for process	
			Solubility g/l		50 g/l Salt	Fixation Temp. (Exhaust Dyeing)						
	30°C	60°C	Water	Water			Copper	Iron	Exhaust	CPB		
BODACTIVE RED CF-WB 150%			100	150	100	60°C	3 BL	4	S	S		
BODACTIVE RED CF-3BS			100	100	60	60°C	4-5 B	4 B	S	S		
BODACTIVE RED CF-K3BS			200	200	100	60°C	2-3	4	S	5		
BODACTIVE RED CF-RSFL			200	200	100	60°C	2-3 BL	4-5	S	S		
BODACTIVE RED CF-S2B			120	150	100	60°C	3 BL	4	S	S		
BODACTIVE DEEP RED CF-2B			120	150	100	60°C	3 BL	4	5	S		
BODACTIVE RED CF-6B			50	50	20	60°C	4 B	3-4	S	NS		
BODACTIVE TURQUOISE CF-G			80	100	80	60°C/80°C	4 R	4 G	S	S		
BODACTIVE BRILL. BLUE CF-R			100	100	50	60°C	4-5	4-5	S	NS		
BODACTIVE BLUE CF-2B			100	100	50	60°C	4-5	4-5	S	S		
BODACTIVE BLUE CF-RSFL			80	100	50	60°C	4 G	4 G	S	S		
BODACTIVE BLUE CF-RSF			80	80	50	60°C	4-5	4-5	S	S		
BODACTIVE BLUE CF-B			100	100	50	60°C	2	4 G	S	S		

Dischargeability	Fastness Properties																					
	Light			Washing						Perspiration				Chlorinated Water	Rubbing		Mercerising		Hot Pressing			
	ISO B02			C03		C04		C4A		E04		20mg/l Cl2	Dry		Wet	Effect	Stain	Immediately	After 4 Hours			
	1/25	1/1	2/1	Effect	Stain	Effect	Stain	Effect	Stain	Effect	Stain			Acidic						Alkaline		
ND	4	4-5	4-5	4	4	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3	4	3-4	4	3-4	4	4-5	
ND	4	4-5	4-5	5	5	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	2-3	4-5	4	4	4	4-5	4-5	
ND	3-4	4	4	4	4-5	4	4	4-5	4-5	4	4	4	4-5	3-4	4	3-4	4	3-4	3BL	4BL		
ND	3-4	4	4	4	4-5	4	4	4-5	4-5	3-4	4	4	4-5	4	4-5	3-4	4-5	3-4	3BLD	4-5BL		
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ND	3	4	4	4	4	4	3-4	4	3-4	3-4	3-4	4	3-4	3	4	3-4	4	3-4	4BL	4		
ND	4	5	6	4-5	4	4	3	4-5	3	4-5	4-5	4-5	4-5	4	4	3-4	4	3	4-5	4-5		
D	6	6-7	7	5	5	4	3-4	4	4	4-5	4-5	4-5	4-5	4	4-5	4	3R	3	3-4R	4		
D	5	5-6	6	4-5	5	4-5	4-5	4-5	4-5	G	5	4-5	5	4	4-5	4	4R	4-5	4-5	4-5		
ND	4-5	5-6	6	4-5	3	4	3	4-5	2-3	4-5	4-5	4-5	4-5	3	4-5	4	3R	4	4-5	4-5		
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D	3-4	4	4-5	4-5	5	4	4-5	4-5	4-5	5	4	4-5	4	3-4	4-5	3-4	4R	3	4R	5		



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BODACTIVE CF RANGE	Exhaust Dyeing		General Properties				Effect of Metals				Suitability for process	
	1.0%	3.0%	Solubility g/l		50 g/l Salt	Fixation Temp. (Exhaust Dyeing)	Copper	Iron	Exhaust	CPB		
			30°C	60°C								
BODACTIVE BLUE CF-2G			100	120	100	60°C	2 R	4	S	S		
BODACTIVE NAVY CF-SG			100	120	100	60°C	2 R	4-5	S	S		
BODACTIVE NAVY BLUE CF-2G			100	120	100	60°C	2 R	4	S	S		
BODACTIVE DARK BLUE CF-WR			100	120	60	60°C	2 R	4	S	S		
BODACTIVE NAVY CF-B			200	200	100	60°C	3 R	4	S	S		
BODACTIVE BLACK CF-B			200	200	100	60°C	3 R	4	S	S		
BODACTIVE BLACK CF-NC			100	100	50	60°C	3-4	4	S	S		
BODACTIVE SUPRA BLACK BNC SPECIAL			200	200	100	60°C	3-4	4	S	S		
BODACTIVE JET BLACK BNC SPECIAL			200	200	100	60°C	3-4	4	S	S		

Dischargeability	Fastness Properties														Chlorinated Water 20mg/l Cl2	Rubbing		Mercerising		Hot Pressing	
	Light			Washing						Perspiration				Dry		Effect					
	ISO B02			C03		C04		C4A		EO4		Effect	Stain				Effect	Stain	Effect	Stain	
	1/25	1/1	2/1	Effect	Stain	Effect	Stain	Effect	Stain	Acidic	Alkaline										
D	4	4-5	4-5	5	4-5	4-5	4	4-5	4-5	4-5	4	5	5	G	4	3-4	3-4	3-4	4-5	4-5	
D	3	3-4	4	4	4-5	4	3-4	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4-5	3-4	4-5	3-4	4-5	4-5	
D	3	3-4	4	4	4-5	4	3-4	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4-5R	3-4	4-5R	3-4	4-5R	4-5	
D	4	4-5	4-5	4-5	4-5	4-5	4	4-5	4	4	4	4-5	4	3-4	4	3-4	3-4	3-4	4-5	4-5	
D	-	3-4	4-5	4-5	5	4	4-5	4-5	5	5	4	4-5	4	2	4-5	3-4	4	2-3	4R	5	
D	-	3-4	4-5	4-5	5	4	4-5	4-5	5	5	4	4-5	4	2	4-5	3-4	4	3	4R	4-5	
D	-	3-4	5	4-5	5	4	4-5	4-5	4-5	4-5	4	4-5	4	2-3	4-5	3-4	4	3	4-3	4-5	
D	-	3-4	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	2-3	4	3-4	4	3	4	5	
D	-	3-4	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	2-3	4	3-4	4	3	4	5	

Black Shade are in 4.0% & 8.0%



BODACTIVE CF DYES

- Excellent Range** Exhaust dyeing
Semi continuous Dyeing
- High Productivity** Low energy consumption.
Shorter dyeing cycle.
Excellent fixation profile.
High solubility.
Stable to acid hydrolysis.
- Excellent Reproducibility** High exhaustion profile.
Robust to process variables exhaust & semi continuous dyeing.
- Excellent Level Dyeing** Low rate of strike.
Superior migration properties.
- Eco friendly** High fixation leaves less colour residue in effluent.
Easy wash off saves valuable water.
Warm dyeing at 60°C consumes less energy.
- Excellent Compatibility range.** Uniform reproducibility & reliable fastness.
Excellent for exhaust dyeing with versatile dyeing process.
Very good for semi continues pad-patch method.

Quantity of Glauber's Salt

% Shade	Glauber's Salt Anhyd. (gpl)
Upto 0.10	10
0.11-0.5	20
0.51-1.0	30
1.01-2.0	50
2.01-4.00	60
Above 4.00	70

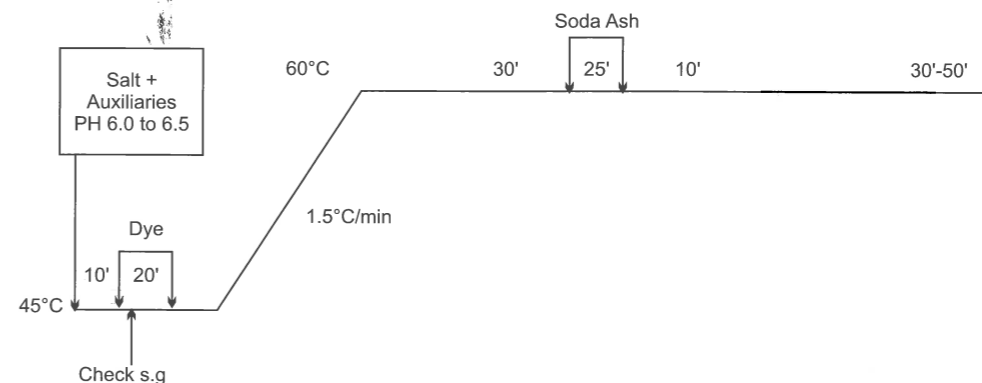
Quantity of Alkali

% Shade System	Soda Ash (gpl)	Mixed Alkali System	
		Caustic (70° Tw) ml/l	Soda Ash (gpl)
<0.5	10.0	0.5	5.0
0.5-1.0	15.0	0.5-1.0	5.0
1.0-3.0	20.0	1.0-1.50	5.0
3.0-5.0	20.0	1.50-2.0	5.0
>5.0	20.0	2.0	5.0

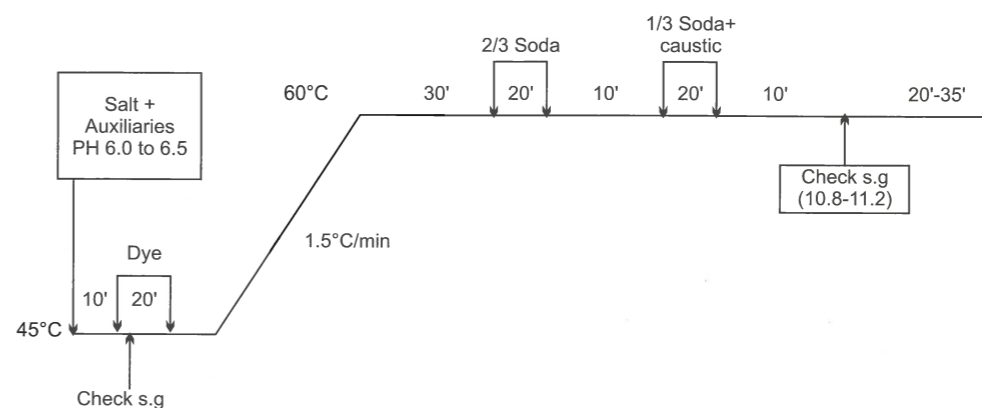


EXHAUST DYEING

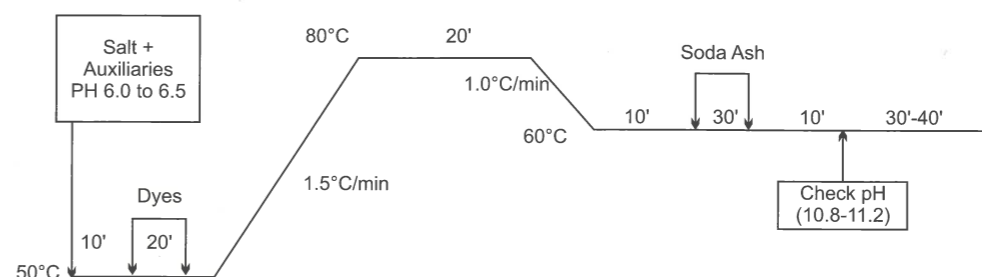
Salt at start standard Method



Mixed Alkali Method



Migration Method



Key to Abbreviations

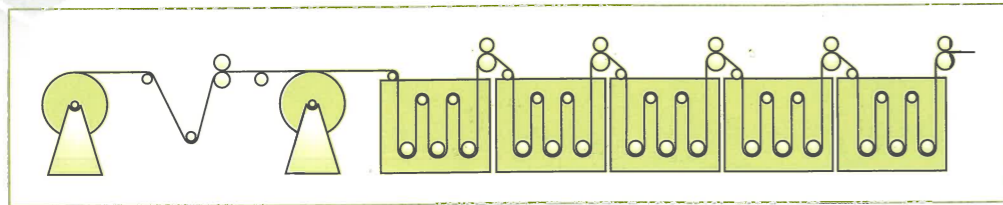
The following abbreviations have been used:

- BL = bluer
- D = duller
- G = greener
- R = Redder
- W = weaker
- D = dis-chargable
- ND = not dis-chargable
- S = suitable
- LS = less suitable
- NS = not suitable

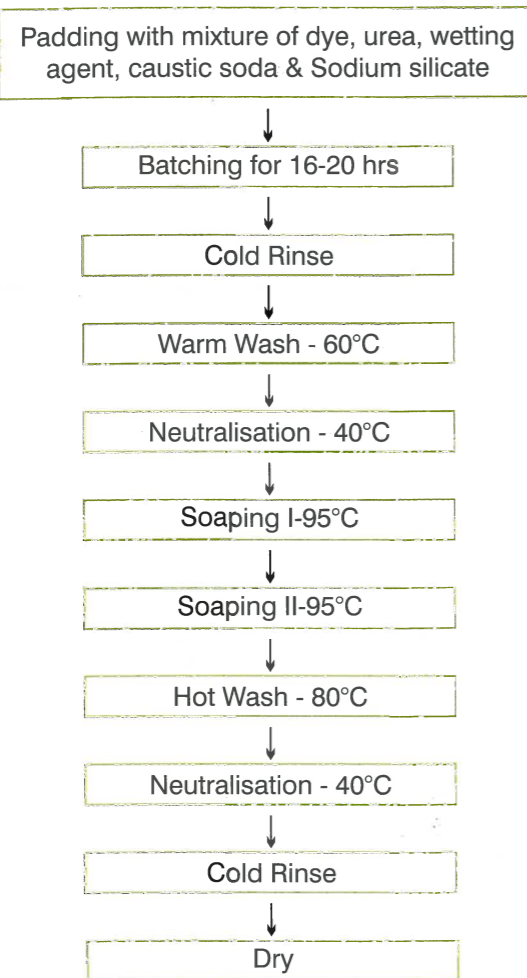


Semi-continuous dyeing

Cold pad batch dyeing process



Process Sequence



Sodium Silicate, Alkali & Urea Requirement

Dye g/l	Upto 20 G/L	Upto 30 G/L	Upto 40 G/L	Upto 50 G/L	Upto 60 G/L	Upto 70-100 G/L
Urea g/l	50	50	50	50	50	50
Caustic soda (32.5%) ml/lit/72°T.W.	15	20	20	25	25	30
Sodium Silicate (100-106°T.W) cc/lit.	65	65	65	65	65	65



Light Shade.

- » Bodactive Yellow CF-RSFL
- » Bodactive Red CF-RSFL / Bodactive Brill.Red CF-G
- » Bodactive Blue CF-RSFL.
- » Bodactive Yellow CF-RSFL
- » Bodactive Red CF-K3BS / Bodactive Scarlet CF-R
- » Bodactive Blue CF-RSF.

Medium Shade.

- » Bodactive Yellow CF-RSFL
- » Bodactive Red RSFL / Bodactive Red CF-S2B
- » Bodactive Navy CF-SG.

Dark Shade.

- » Bodactive Yellow-S3R
- » Bodactive Red CF-S2B / Bodactive Red CF-K3BS
- » Bodactive Navy CF-B / Bodactive Black B 150 % / Bodactive Navy CF-RGB

High Light Fastness.

- » Bodactive Yellow CF-RSFL
- » Bodactive Red CF-RSFL/ Bodactive Scarlet CF-R / Bodactive Red CF-G
- » Bodactive Blue CF-RSFL.

Pad-Batch.

- » Bodactive Yellow-S3R
- » Bodactive Red CF-RSFL / Bodactive CF-WB-150%
- » Bodactive Navy CF-RGB / Bodactive Navy CF-B / Bodactive Black B 150 %.

Jet Black.

- » Bodactive Supra Black BNC Special.
- » Bodactive Jet Black BNC Special..

