

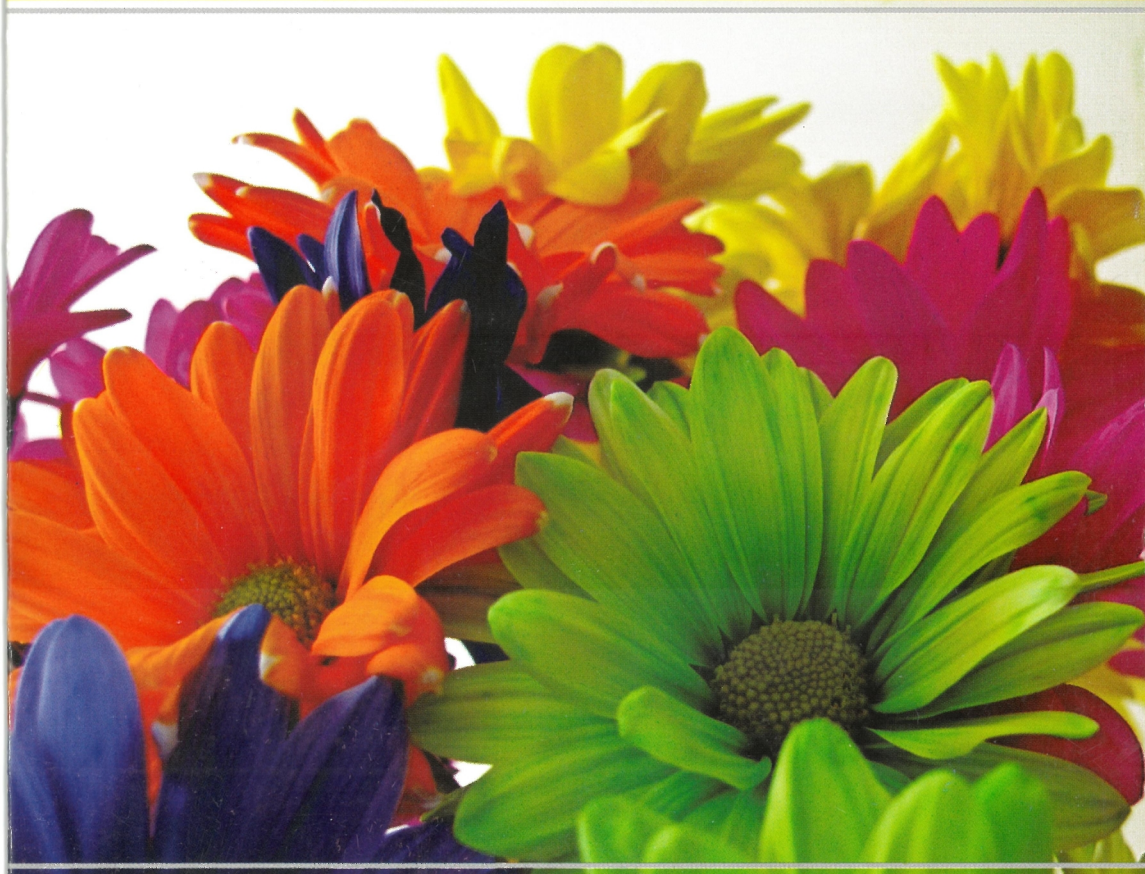


Bodal Chemicals Ltd.
COLOURS. INTEGRATION. INNOVATION.

Our Quality, Your Satisfaction

BODACTIVE ELF DYES

HIGH FASTNESS REACTIVE DYES



Bodal Provide highest quality to your satisfaction

Bodactive ELF

- High performance reactive dyes for cellulose & cellulosic blends.
- High fastness level
- Very good lab-to-bulk & bulk-to-bulk reproducibility
- On-tone built-up characteristics
- Very good light fastness in light shades
- Robust dyeing characteristics
- High degree of fixation
- Meets requirements of major ecology standards
- Suitable for exhaust, semicontinuous and continuous processes

Bodactive Yellow ELF

0.25%

0.5%

1.0%

10 g/l



Bodactive Red ELF



Bodactive Blue ELF



Bodactive Navy ELF

0.5%

1.0%

2.0%

20 g/l



Bodactive Dyes		Bodactive Yellow ELF	Bodactive Red ELF	Bodactive Blue ELF	Bodactive Navy ELF
Standard Depth		2.3%	3.0%	3.3%	3.6%
Solubility (g/l) at 30 °C		100	100	100	100
Process Suitability	Exhaust	S	S	S	S
	Cold Pad Batch	S	S	S	S
	Continuous Dyeing	S	S	S	S
Migration Index (%)		87	95	82	92
Fixation Yield (%)		84	88	83	90
Light Fastness (AATCC/16E, 20 AFU)	1/25	4-5	4	4	3-4
	1/6	4-5	4	4	3-4
	1/1	4-5	4	4-5	4
Washing Fastness	(ISO-105-C06 C2S @ 60°C)	4-5 4-5	4-5 4-5	4-5 4-5	4-5 4-5
	(ISO-105-C06 E2S @ 95°C)	4-5 4	4-5 4	4-5 4-5	4-5 4
Water Fastness (ISO-105-E01)		4-5 4-5	4-5 4	4-5 4	4-5 4
Crocking Fastness (ISO-105 X 12)	Dry	4-5	4-5	4-5	4-5
	Wet	4	4	4	4
Chlorinated Water (ISO-105-E03 / 20ppm)		4	4	4	4
Perspiration (ISO 105 E04)	Acidic	4-5 4-5	4-5 4-5	4-5 4	4-5 4
	Alkaline	4-5 4-5	4-5 4-5	4 4	4-5 4-5
Oxidative Bleach Damage (M&S C10 A)		4 ON TONE	4 ON TONE	4 ON TONE	4 ON TONE

Chemical Recommendations-Exhaust Dyeing

Salt Soda Method						
BOADACTIVE ELF %	<0.1	>0.1-0.25	>0.25-0.5	>0.5-1.0	>1.0-2.0	>2.0-3.0
Salt (g/l)	10	15	20	30	40	50
Soda Ash (g/l)	8	10	12	14	16	18

Chemical Recommendations - Cold Pad-Batch dyeing

Alkali Table				
BOADACTIVE ELF (g/l)	<10	>10-20	>20-30	>30-40
Sodium Silicate (ml/l) 37°-40° Bé (69°-77° Tw)	70	70	70	70
Caustic Soda (ml/l) 36° Bé (66° Tw)	4	6	8	10
Sodium Silicate (ml/l) 30°-43° Bé (77°-85° Tw)	60	60	60	60
Caustic Soda (ml/l) 36° Bé (66° Tw)	5	7	9	11
Sodium Silicate (ml/l) 48°-50° Bé (100°-106° Tw)	50	50	50	50
Caustic Soda (ml/l) 36° Bé (66° Tw)	-	0.5	2	4

Recommended Bodax Auxiliaries

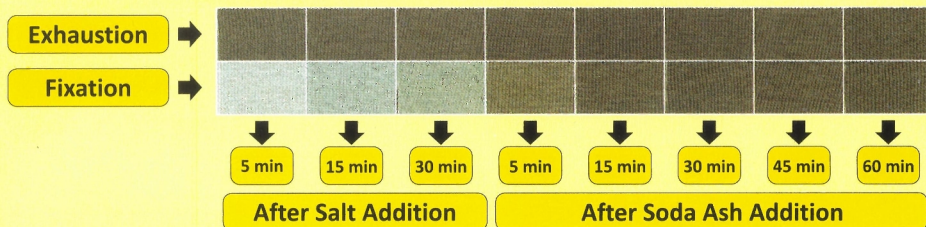
Dyebath Auxiliaries in Exhaust Method		
Name of products	Product description	Dosage
Bodax PFE	Dyebath conditioner and iron chelator	0.25 to 0.5 gpl
Bodax VDBC	Specially high temperature stable conditioner cum sequestrant	0.25 to 0.5 gpl
Bodax DRDL	Economical Levelling agent	0.5 to 0.75 gpl
Wash-off Agent		
Bodax DXCW	Universal after soaping agent for the removal of hydrolysed	0.5 - 1.0 gpl
	Reactive dyes or unfixed Direct dyes	
Dye fixing Agent		
Bodax DNF	Economical non-formaldehyde dye fixing agent	0.5 to 1.0 gpl
CPB method		
Wetting Agent		
Bodax VNF	Wetting cum deaerating agent for continuous and semi-continuous proces	0.25 to 0.5 gpl

On-tone build-up - Bodactive ELF Trichromy

Exhaust Dyeing at 60°C
on Bleached 100% Cotton Knit

Recipe :

Bodactive Yellow ELF	-0.55%
Bodactive Red ELF	-0.40%
Bodactive Blue ELF	-1.00%
G. Salt-40 gpl, Soda Ash-16 gpl	



Robustness properties - Bodactive ELF Trichromy

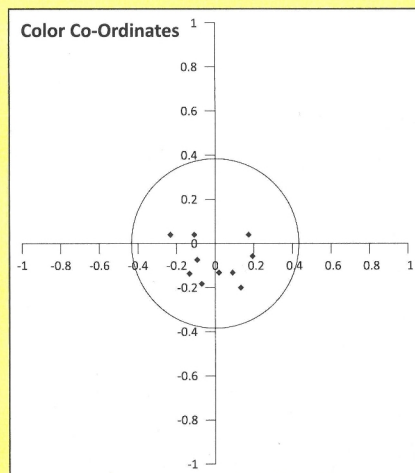
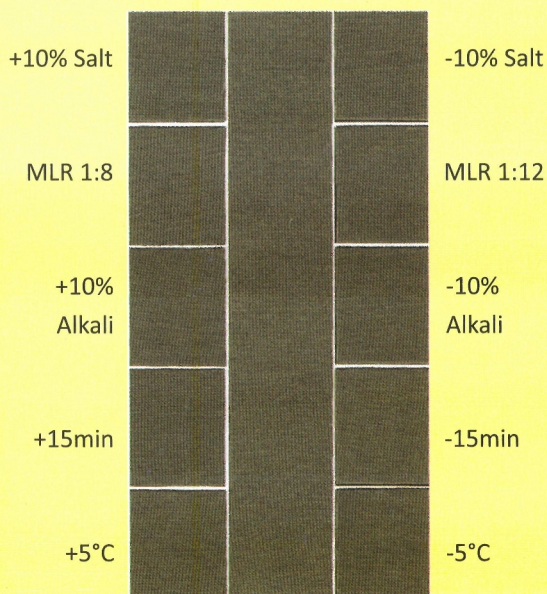
Std. Parameters:

G.salt = 40gpl

Soda ash = 16gpl

L:R = 1:10

Fixation Time / Temp. = 60'/60°C





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