

ROOPACTIVE BLACKS

1. One Phase Method

- **Steaming Process:**

Print
↓
Dry
↓
Steam 10 minutes
at 100-102°C
↓
Wash

- **Dye Heat Process:**

Print
↓
Dry
↓
Back for 5 minutes
at 105°C
↓
or 1 minute at 200°C

2. Two Phase Method

- **Pad Silicate Batch Process:**
  Print (Dyestuff Paste without alkali) → Dry
  → Silicate Pad (Sodium Silicate 100-106°Tw)
  → 12 to 16 Hrs. Batch → Wash

PRINTING PASTE RECIPE :

Material	One Phase Method	Two Phase Method
Dyestuff	10-60 Parts	10-60 Parts
Urea	50-100 Parts	50-100 Parts
Hot Water	300 Parts	300 Parts
Sodium Alginate 4% (Thickener)	350-400 Parts	350-400 Parts
Resist Salt	10 Parts	10 Parts
Sodium Bicarbonate	15-30 Parts	-----
Water	X Parts	X Parts
Total	1000 Parts	1000 Parts

DISCHARGE PRINTING

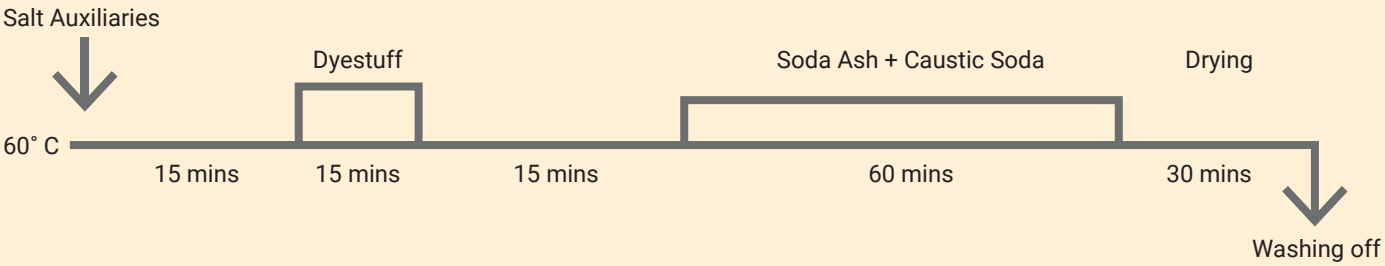
VS Based dyes are suitable for discharge printing. Cotton fabrics discharge is better than spun viscose fabrics. Prior to discharge printing, the dyed fabric should be treated with resist salt 10gms/lt. to protect the dyed ground shade from reducing effect.

DISCHARGE PRINTING PASTE RECIPE :

Sodium Alginate 4%	500 Parts
Rangolite	150-200 Parts
Titanium Dioxide	100 Parts
Caustic Soda	100-200 Parts
Water	X Parts
Total	1000 Parts

Dyed Pad
↓
Print (Dischage Printing Paste)
↓
Dry (at 80-90°C)
↓
Steam for 5-10 minutes
↓
Wash

Exhaust Dyeing



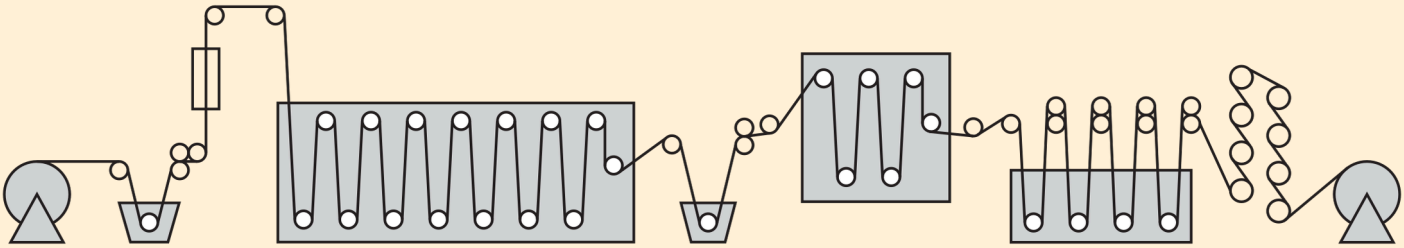
% Dye	Salt (g/l)	Soda Ash (g/l)	Caustic Soda 50%(ml/l)
<0.1	20	5	0
0.1 - 0.5	20 -25	5	0.6 - 0.75
0.5 - 1.0	25 - 40	5	0.75 - 0.9
1.0 - 2.0	40 - 50	5	0.9 - 1.2
2.0 - 3.0	50 - 60	5	1.2 - 1.5
3.0 - 5.0	60 - 80	5	1.5 - 2.0
>5.0	80 - 100	5	2.0

Washing-off Process

- 10 mins. at 50° C (de-ionised water)
- 10 mins. at 50° C
  (at pH 5-6 with acetic acid)
- 10 mins. at 80° C (de-ionised water)
- 10 mins. at 95° C (de-ionised water)
- 10 mins. at 80° C (de-ionised water)
- 10 mins. at 25° C (de-ionised water)

(Without Guarantee)

Pad - Dry - Chemical Pad - Steam Method



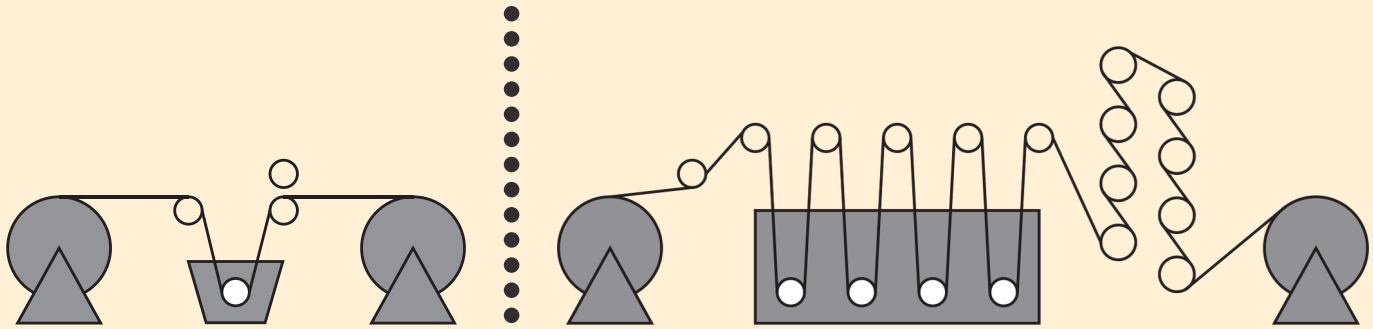
Pad : Dye, wetting agent, anti-migrant, mild oxidant, IR Pre-dry,
Dry : 110 - 130˚C Chemical Pad

Dyestuff (g/l)	Common Salt (g/l)	Soda Ash (g/l)	Caustic Soda 50%(ml/l)
<20	250	20	3
20-40	250	20	4
>40	250	20	6

Steam : 90 secs (saturated steam)

Washing-off Process • 50˚ C (de-ionised water) • 60˚ C (de-ionised water, acetic acid to pH 5-6) • 95˚ C (de-ionised water + sequestrant) • 95˚ C (de-ionised water + sequestrant) • 95˚ C (de-ionised water + sequestrant) • 80˚ C (de-ionised water) • 60˚ C (de-ionised water) • Cold (de-ionised water)

Cold Pad Batch Dyeing Method



1. Cold Silicate Method

Mixing pump required: Add 100 g/l urea to dye liquor (as necessary for solubility)

Dyestuff (g/l)	Sodium Silicate (38˚ Be)	Caustic Soda 50%(ml/l)
<20	50ml/l	11
30	50ml/l	14
40	50ml/l	14
50	50ml/l	14
60	50ml/l	17
70-100	50ml/l	20

Batch 16 hours 25˚ C

Washing-off Process • Cold (de-ionised water) • Cold (de-ionised water) • 60˚ C (de-ionised water) • 60˚ C (de-ionised water, acetic acid to pH 7) • 95˚ C (de-ionised water + detergent) • 95˚ C (de-ionised water + detergent) • 95˚ C (de-ionised water) • Warm (de-ionised water)

(Without Guarantee)

ROOPACTIVE BLACKS

Exhaust Dyeing (Knit Wear - 4%)	
Roopactive Black NN	
Roopactive Black ZN	
Roopactive Black SN	

Exhaust Dyeing (Mercerized Cotton - 4%)	
Roopactive Black NN	
Roopactive Black ZN	
Roopactive Black SN	

Printing & Discharge - 4%	
Roopactive Black NN	
Roopactive Black ZN	
Roopactive Black SN	

Multifiber Test	
Black WNN	
Roopactive Black NN	
Roopactive Black ZN	
Roopactive Black SN	

PRODUCT NAME	Light Fastness (ISO 105-B02)	Washing Fastness (ISO 105-C02)	Perspiration Fastness (ISO - 105 - E04)		Rubbing Fastness (ISO - 105 - X12)		Solubility at 60° C in Plain Water gm/lit.
			ACID	ALKALI	DRY	WET	
Roopactive Black NN	As Black	5	5	4-5	4-5	3-4	140
Roopactive Black ZN	As Black	5	5	4-5	4-5	3-4	140
Roopactive Black SN	As Black	4	4-5	4-5	4	3-4	140

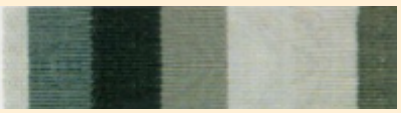
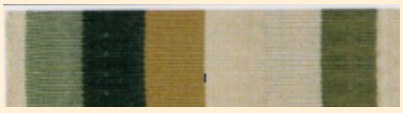
(Without Guarantee)

ROOPACTIVE BLACKS

Exhaust Dyeing (Mercerized Cotton - 4%)	
Black R	
Roopactive Black R	
Roopactive Black SR	

Exhaust Dyeing (Mercerized Cotton - 4%)	
Black G	
Roopactive Black G	
Roopactive Black SG	

Printing & Discharge - 4%	
Roopactive Black R Roopactive Black G	
Roopactive Black SR Roopactive Black SG	

Multifiber Test	
Super Black R/G	
Roopactive Black R/G	
Roopactive Black SR/SG	

PRODUCT NAME	Light Fastness (ISO 105-B02)	Washing Fastness (ISO 105-C02)	Perspiration Fastness (ISO - 105 - E04)		Rubbing Fastness (ISO - 105 - X12)		Solubility at 60° C in Plain Water gm/lit.
			ACID	ALKALI	DRY	WET	
Black R/G	As Black	4-5	5	5	4-5	4/3-4	140
Roopactive Black R/G	As Black	4-5	5	5	4-5	4/3-4	140
Roopactive Black SR/SG	As Black	4	4-5	4-5/5	4	3-4	140

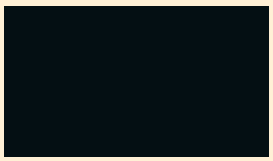
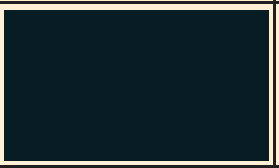
(Without Guarantee)

ROOPACTIVE ECO BLACKS

ECO Black B & Black NN

- New groundbreaking Reactive Black Dye meeting strictest environmental standards while helping textile mills.
- Free from hazardous arylamines including p-chloroaniline (PCA) and also heavy metals.
- Compliant with all Restricted Substance Lists (RSL), Zero Discharge of Hazardous Chemicals and GOTS with Oeko-Tex Standard 100.
- Excellent build up and washing off properties.
- Meeting all severe wet-fastness requirements, Roopactive ECO Black dye sets a new benchmark for fastness performance and is excellent for fabrics that require the highest chlorine-fastness and good light fastness.
- Better retention of the original shade.
- Wide application range in Exhaust, Continuous dyeing and Printing.

ROOPACTIVE TURBO BLACKS

0.5% Shade Cotton			
Turbo Black R			**Super Black R**
Turbo Black G			**Super Black G**
Turbo Black B			**Black B** (Crude)
Turbo Black NN			**Black NN** (Crude)

PRODUCT NAME	Light Fastness (ISO 105-B02)	Washing Fastness (ISO 105-C02)	Perspiration Fastness (ISO - 105 - E04)		Rubbing Fastness (ISO - 105 - X12)		Solubility at 60° C in Plain Water gm/lit.
			ACID	ALKALI	DRY	WET	
Turbo / Super Black R	As Black	4-5	5	5	4-5	4/3-4	140
Turbo / Super Black G	As Black	4	4-5	4-5/5	4	3-4	140
Turbo / Black B	As Black	4-5	5	5	4-5	4/3-4	140
Turbo / Black NN	As Black	4	4-5	4-5/5	4	3-4	140

(Without Guarantee)

Dyeing & Printing 3%	Roopactive Black Series	Light Fastness (ISO 105-B02)	Washing Fastness (ISO 105-C02)	Perspiration Fastness (ISO - 105 - E04)		Rubbing Fastness (ISO - 105 - X12)		Solubility at 60° C in Plain Water gm/lit.
				ACID	ALKALI	DRY	WET	

FOR DYEING

	Black B Black 5	6	5	4	4	4	4	150
	Black GSP Black Mix	As Black	5	5	5	4-5	2-3	150
	Black HEBL Black 160	4-5	4-5	4-5	4	4-5	2-3	125
	Black RLL Black 31	As Black	5	5	5	4	2-3	150
	Wool Black EHF Black Mix	As Black	5	4	4	4	4	150
	Jet Black	As Black	5	4-5	5	4-5	4	150

FOR PRINTING

	Black N150 Black Mix	As Black	4	4-5	4	4-5	3	150
	Black HN Black 8	As Black	4-5	4-5	4-5	4-5	3-4	100
	Black PGR Black Mix	As Black	4-5	5	4-5	4-5	3-4	150
	Navy Blue P-2R Black 39	As Black	4	4-5	4-5	4-5	3	120
	Jet Black	As Black	5	4-5	5	4-5	4	150

FOR DIRECT DYES

	Direct Black 22 - 1200%	2-3	1-2	2-3	2-3	2-3	2	30
	Direct Black 22 - 2400%	2-3	1-2	2-3	2-3	2-3	2	25

(Without Guarantee)

Roop Dyes & Intermediates

Manufacturers & Exporters of Reactive & Other Dyes

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ISO 9001:2015 ISO 14001:2015 ISO 45001:2018 ZDHC GLOBAL ORGANIC TEXTILE STANDARD GOTS OEKO TEX® ECO PASSPORT EXPORT HOUSE