Roop Dyes & Intermediates

Where Color Meets Innovation

Reactive Dyes

ROOPACTIVE SERIES

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

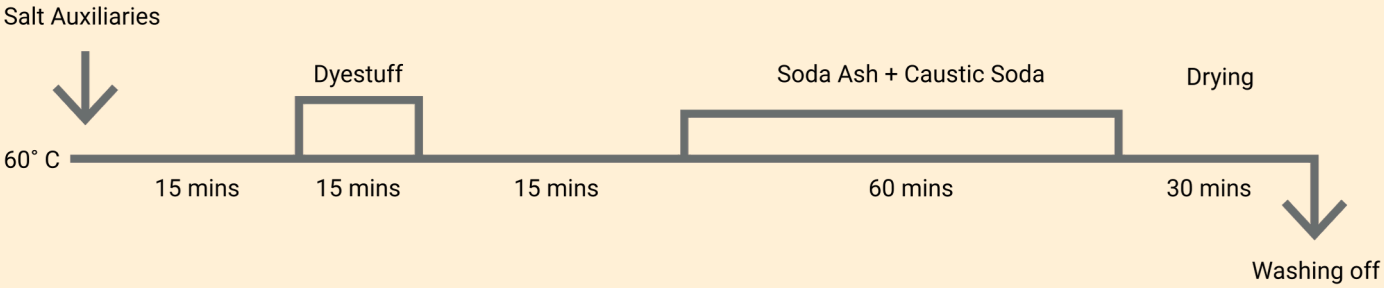
VS Based dyes are suitable for discharge printing. Cotton fabrics discharge is better than spun viscose fabrics. Prior to discharge printing, the dyed fabric should be treated with resist salt 10gms/lt. to protect the dyed ground shade from reducing effect.

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



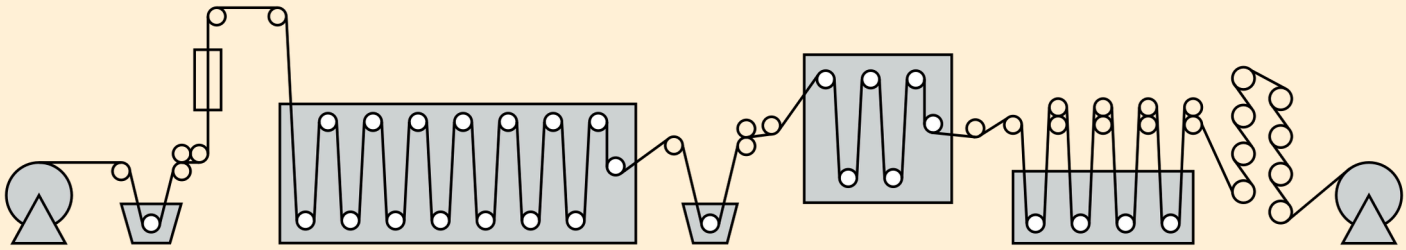
% Dye	Salt (g/l)	Soda Ash (g/l)	Caustic Soda 50%(ml/l)
<0.1	20	5	0
0.1 - 0.5	20 -25	5	0.6 - 0.75
0.5 - 1.0	25 - 40	5	0.75 - 0.9
1.0 - 2.0	40 - 50	5	0.9 - 1.2
2.0 - 3.0	50 - 60	5	1.2 - 1.5
3.0 - 5.0	60 - 80	5	1.5 - 2.0
>5.0	80 - 100	5	2.0

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

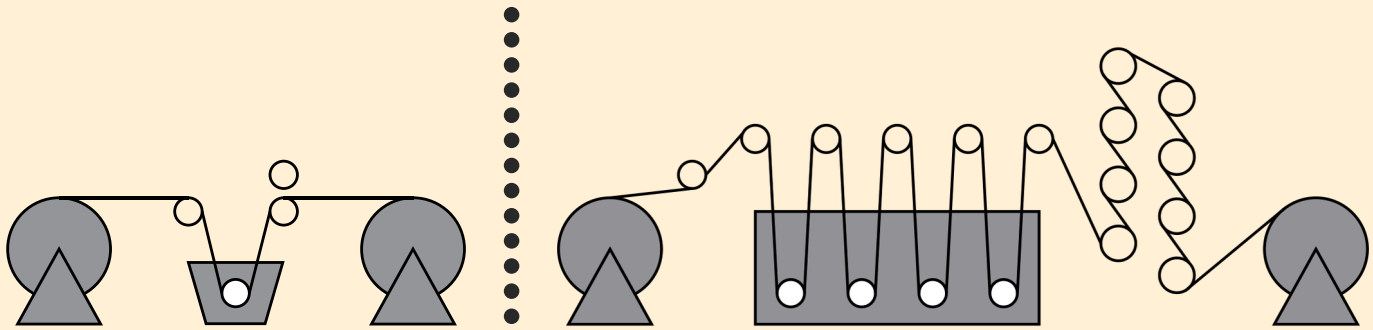
Dyestuff (g/l)	Comom Salt (g/l)	Soda Ash (g/l)	Caustic Soda 50%(ml/l)
<20	250	20	3
20-40	250	20	4
>40	250	20	6

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	12
50	50ml/l	12
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)

ROOPCION NSD SERIES

(INNOVATION FOR NATURE)

Roop Dyes & Intermediates

Roopcion NSD colours specially developed for environment supports. These colours gamets required low salt and low temperature with low water. Hence these colours supports nature. Roopcion NSD colours suitable for various different types of cotton fabrics with various application. These gamets applicable of cotton, Rayon , Knits, Viscos PC fabrics, Denim, Twill cotton and Cotton Blend fabrics.

IMPORTANT FEATURES OF ROOPCION NSD

- Roopcion NSD dyeable at low temperature and low salt with low liquor ratio.
- Roopcion NSD has three reactive groups in each dye molecule instead of two which allow to dye fix quickly with fiber with small period.
- Roopcion NSD are dyeable at ultra short liquor ratio with good reproducibility.
- Roopcion NSD having a excellent solubility and very high light fastness, washing fastness and all other properties.
- Roopcion NSD has good reproducibility lab to lab , Lab to Bulk and Bulk to Bulk.
- Roopcion NSD is suitable for exhaust dyeing, cold pad batch, cold caustic dyeing, cold silicate dyeing, continuous dyeing and pad dry steam process.
- Roopcion NSD has superior levelling of fastness properties and reduced washing off at 60°c temperature.
- Roopcion NSD is suitable for light, medium and dark shades with maintaining all properties
- Poopcion NSD is having good mercerizing properties with minimum shade change
- Roopcion NSD has excellent levelling properties as edge-ceter-edge.

ROOPCION NSD SERIES

(INNOVATION FOR NATURE)

Roop Dyes & Intermediates



Roopcion NSD Envirmentaly Sustainble Reactive Dyes Water, Energy Saving Dyes. Gamets prepard for all types of cotton fabric. Suitable for exhaust dyeing, CPB, Continuous dyes		Lemon Yellow NSD	Golden Yellow NSD	Orange NSD	Red NSD	Caramine Red NSD	Royal Blue NSD	Brill Blue NSD	Navy Blue NSD	Deep Black NSD
1/1 SD % on knitted cotton fabric		1.85	1.90	2.10	1.85	2.30	2.25	2.00	2.10	-
Suitability of Various Application	Exhuast Dyeing 60°C	S	S	S	S	S	S	S	S	S
	CPB/ PDPS/PDS	S	S	S	S	S	S	S	S	S
	conituous/ Caustic / Silicate	S	S	S	S	S	S	S	S	S
Light Fastness of SD	ISO-105-B02	6-7	6-7	6	6-7	6	6-7	6	6-7	5
	AATCC-16E-20hr	4-5	4-5	4-5	4-5	4	4-5	4	4	4
Fastness to water ISO-105-EO-1	CH	5	5	4-5	4-5	4-5	4-5	4	4	4
	CO	4-5	4-5	4	4	4	4-5	4	4	3-4
Fastness to water-60°C ISO-105-CO-1S X 5	CH	5	4-5	4-5	4-5	4-5	4-5	4	4-5	3-4
	CO	4-5	4-5	4	4-5	4-5	4-5	4	4	3-4
Multipal washing Fastness- 60°C ISO-105-CO6-1S X 5	CH	4-5	4-5	4	4	4	4-5	4	4	4
	CO	4-5	4-5	4	4	4-5	4	4	4	4
Fastness to prespiration ISO-105-E04	Acedic	5	4-5	4-5	4	4	3-4	3-4	4	3-4
	Alkaline	5	4-5	4-5	4-5	4	4	3-4	4	4
Fastness to chlorinated water	ISO-105-E03-20mg/L.	4-5	4	4	4	4	3-4	3-4	4	3-4
Fastness to Bleaching	M & S - C10A	4-5	4-5	4	4	4	3-4	3-4	4	3-4
Fastness to Mercerizing. ISO-105- X 04	CH	4-5	4-5	4-5	4-5	4-5	4-5	4	4	3-4
	CO	4-5	4	4	4	4	4-5	4	4	3-4
Fastness to Rubbing X- 12 method	Dry Rubbing	5	4-5	4-5	4-5	4	4-5	4-5	4-5	4
	Wet Rubbing	4-5	4-5	4	4	4	4-5	4	4	4

Roop Dyes & Intermediates

Manufacturers & Exporters of Reactive & Other Dyes

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ISO 9001 : 2015 ISO 14001 : 2015 ISO 45001 : 2018

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