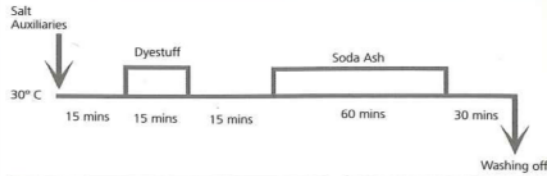




# Jakofix® C Dyes

## Cold Exhaust Dyeing Method



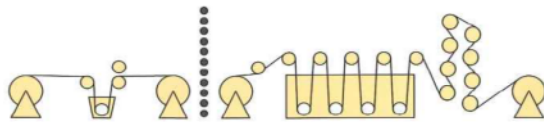
| % Dye     | Salt (g/l) | Soda Ash (g/l) |          |
|-----------|------------|----------------|----------|
|           |            | L:R 1:15       | L:R 1:20 |
| < 0.5     | 25         | 5              | 3        |
| 0.5 - 2.0 | 25 - 35    | 10             | 4        |
| 2.0 - 4.0 | 35 - 45    | 15             | 8        |
| >4.0      | 55         | 20             | 10       |

**Washing-off Process**

- 10 mins at 50° C (de-ionised water)
- 10 mins at 50° C (de-ionised water)
- 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)

Note : For Jakofix Turquoise Blue CGN, temperature should be raised to 60° C during the last 20 minutes of the final fixation phase.

## Cold Pad Batch Method



### 1. Short Pad Batch Method

Mixing pump required

| Dyestuff (g/l) | Urea (g/l) | Soda Ash (g/l) |
|----------------|------------|----------------|
| < 5            | 0          | 5              |
| 5-30           | 50         | 5-30           |
| >30            | 100-200    | 30             |

Batch 2 hours at 25° C  
( 24 hours for Turquoise based shades )

#### 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)

### 2. Tropical Method

Mixing pump required

| Dyestuff (g/l) | Urea (g/l) | Sodium Bicarbonate (g/l) | Soda Ash (g/l) |
|----------------|------------|--------------------------|----------------|
| < 5            | 0          | 4                        | 1              |
| 5-30           | 50         | 4-24                     | 1-6            |
| >30            | 100-200    | 24                       | 6              |

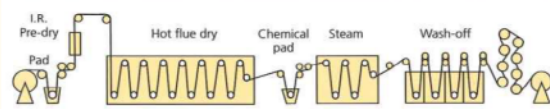
Batch 8 hours at 35° C  
( 16 hours for Turquoise based shades )

#### 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)

# Jakofix® C Dyes

## Pad-Dry-Chemical pad-Steam Method



Pad : dye, wetting agent, anti - migrant, mild oxidant, IR Pre-dry  
Dry : 110 - 130° C, Chemical pad

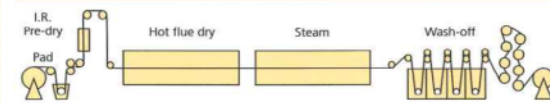
| Dyestuff (g/l) | Common Salt (g/l) | Caustic Soda 50% (ml/l) |
|----------------|-------------------|-------------------------|
| < 20           | 250               | 20                      |
| 20-40          | 250               | 20                      |
| > 40           | 250               | 25                      |

Steam : 60 secs ( saturated steam at 102° C )

#### 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 )
- 280° C (de-ionised water)
- 60° C (de-ionised water)
- Cold (de-ionised water)

## Pad-Dry-Steam Method (for Cotton & Viscose - Heavy Shades)



Mixing pump required

Pad : dye, wetting agent, anti - migrant mild oxidant, 50-100 g/l Urea, alkali

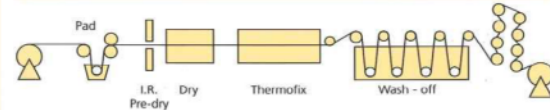
| Dyestuff (g/l) | Common Salt (g/l) | Sodium Bicarbonate (g/l) |
|----------------|-------------------|--------------------------|
| < 10           | 10                | 5                        |
| 10-50          | 10                | 10                       |
| > 50           | 10                | 10                       |

IR Pre-dry, Dry : 100-120° C, Steam : 20secs  
( saturated steam at 102° C )  
Note : Viscose must be padded and batched for 1 hour before drying

#### 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)

## Pad-Dry-Thermofix Method (for Cotton & Viscose - Pale Shades)



Pad : dye, wetting agent, mild oxidant anti-migrant, sequestering agent, alkali

| Dyestuff (g/l) | Common Salt (g/l) | Sodium Bicarbonate (g/l) |
|----------------|-------------------|--------------------------|
| < 10           | 10                | 5                        |
| 10-50          | 10                | 10                       |
| > 50           | 10                | 10                       |

IR Pre-dry, Dry : 110-130° C, Thermofix : 2 mins at 160° C  
Note : Viscose must be padded and batched for 1 hour before drying

#### 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)

Jakofix® C Dyes

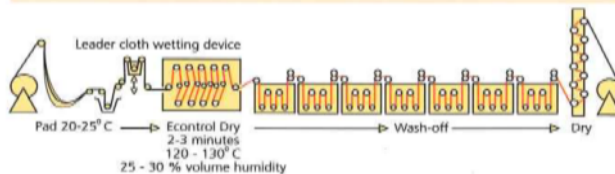


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# Jakofix® C Dyes

## Econtrol Method



Mixing pump required  
Pad: dye, wetting agent, mild oxidant, anti-migrant, sequestering agent, alkali

| Dyestuff (g/l) | Soda Ash (g/l) |
|----------------|----------------|
| < 20           | 20             |
| > 20           | 30             |

Fixation time 2-4 mins

| 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)                        |

## Customer Benefits

- Full fixation achieved in short time due to highly reactive dichlorotriazine anchor
- High lightfastness trichromat available
- Excellent wash-off properties and wet fastness
- Wide shade range including bright dyestuffs

## Dye Selection

### Pale Shades

- Brilliant Yellow C8G
- Brilliant Yellow C4G - SL
- Red Brown C4R
- Brilliant Blue CR - SL

### Medium-Heavy Shades

- Brilliant Yellow C4R
- Brilliant Red C5B - SL
- Navy Blue C3R

### Support Dyes

- Brilliant Yellow CGR
- Golden Yellow CR
- Brilliant Orange C2R
- Brilliant Megenta CB - SL
- Brilliant Violet C4R
- Turquoise Blue CGN
- Brilliant Blue C4R

## Abbreviations

- Bl - Bluer
- Br - Brighter
- Dk - Darker
- DI - Duller
- G - Greener
- R - Redder
- Y - Yellower
- S - Suitable
- NS - Not Suitable
- S\* Suitable for pale shades only

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