



**Curex Group.**

Textile Dyes and Auxillary Division

## **APPLICATIONS**

### **Reactive dyes**



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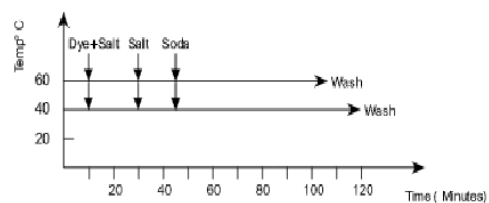
**Textile Dyes and Auxillary Division**

**'VS' dyes (B-Sulphatoethyl Sulphone)**

**Feature :**

- Moderate reactivity with low dyeing temperature, 40-60°C
- Good Dyeing and Printing performance
- Excellent wet fastness properties
- Good dischargeability of dyed grounds
- Wide range of application methods etc.

**Exhaust Dyeing : Standard Method :**



Minutes Starting	Load Machine-Run Liquor and/or fabric. Set the bath to required temp (40°C or 60°C) Adjust PH with acetic acid, if necessary.
10	Add predissolved dye and Half of Salt solution.
20	Continue at 40°C or 60°C. Add Reminder of salt.
15	Continue at 40°C or 60°C. Add Soda ash Solution.
90 or 60	Continue at 40°C or 60°C. Wash.



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**Dyeing at 40°C - Dyeing time 90 minutes :**

Suitable for dyeing of non-mercerised cotton in medium and dark shades. Best tinctorial strength and fixation value.

	JIGGER		SOFT FLOW & WINCH	
Material : Liquor Ratio	1 : 2 - 1 : 3	1 : 4 - 1 : 6	1 : 7 - 1 : 14	1 : 15 - 1 : 30
Glauber Salt gms/l	50 - 80	50 - 80	50 - 80	50 - 80
Soda Ash gms/l	5	5	5	5
Caustic Soda 72° Tw ml/l	4 - 6	3 - 4	2 - 3	1 - 2

**Dyeing at 60°C - Dyeing time 60 minutes :**

Suitable for pale shades on mercerized cotton and rayon fabric. Best levelness and short dyeing cycle.

	JIGGER		SOFT FLOW & WINCH	
Material : Liquor Ratio	1 : 2 - 1 : 3	1 : 4 - 1 : 6	1 : 7 - 1 : 14	1 : 15 - 1 : 30
Glauber Salt gm/l	50 - 80	50 - 80	50 - 80	50 - 80
Soda Ash gm/l	5	5	5	5
Caustic Soda 72° Tw ml/l	3 - 5	0.5 - 3	0 - 2	0 - 1
Only Soda Ash as Alkali g/l	5 - 25	5 - 20	5 - 20	5 - 20



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Dyeing at 80°C - Dyeing time 60 minutes :

Suitable for Turquoise and combination with other dyes. Best possible colour yield.

	JIGGER		SOFT FLOW & WINCH	
Material : Liquor Ratio	1 : 2 - 1 : 3	1 : 4 - 1 : 6	1 : 7 - 1 : 14	1 : 15 - 1 : 30
Glauber Salt gm/l	50 - 80	50 - 80	50 - 80	50 - 80
Soda Ash gm/l	25	15 - 20	10 - 15	5 - 10

At the end of dyeing final pH of dye bath should be pH 10.6 to 11 at room temperature 35°C

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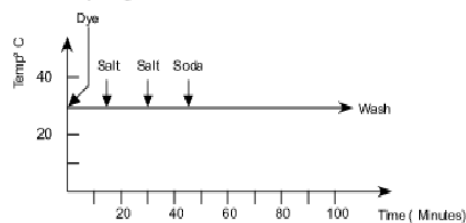
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### **M dyes (Dichlorotriazine)**

#### **Feature :**

- High reactivity with very low dyeing temperature, 30–40°C
- Good fastness properties
- Require milder alkaline conditions.

#### **Exhaust Dyeing : Standard Method :**



Minutes Starting	Load machine–Run Liquor and/ or fabric. Set the bath to 30°C. Ensure PH is below 7. Adjust PH with Acetic acid, if necessary. Add predissolved dye.
15	Continue at 30°C. Add half of the Predissolved Galuber's Salt.
15	Continue at 30°C. Add the reminder of the salt.
15	Continue at 30°C Add predissolved Soda ash solution.
40 - 60	Continue at 30°C. Wash.



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Salt & Alkali Requirement :

Depth of Shade %	Salt gms/lt	Soda Ash (M : L Ratio)			
		1:5	1:10	1:15	1:30
Up to 0.5	30	5	5	3	2
0.5 - 1.0	40	10	5	4	2
1.0 - 2.0	50	15	10	8	4
2.0 - 4.0	60	20	15	10	5
Above 4.0	60	20	15	10	5

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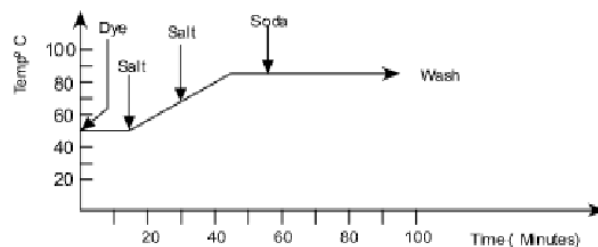
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### 'HE' dyes (Bis Monochlorotriazine)

#### Feature :

- High exhaustion & fixation.
- Good build up in high & low liquor ratio dyeing.
- Quicker wash off and efficient soaping.
- Insensitivity to dyeing variable, tempearture, salt concentrations etc.
- Improved batch to batch consistency.
- Suitable for piece & yarn on all types of dyeing equipment.

#### Exhaust Dyeing : Standard Method :





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Minutes Starting	Load Machine-Run Liquor and/or fabric. Ensures PH is below 7. Adjust PH with acetic acid if necessary.set the dye bath at 50°C.Add pre dissolved dye.
15	Add half of Predissolved Glauber's salt. Continue dyeing. (*)
15	Add reminder of salt. Continue dyeing. at 80°C
15	Continue dyeing. at 80°C
10	Add soda ash solution. Continue dyeing at 80-85°C.
30-60	Continue dyeing at 80-85°C. Wash.

\* Rise Temp to 80-85°C while the salt is being added @ 1°C per minute.

**Salt & Alkali Requirement :**

Depth of Shade %	Salt gms/lt.	Soda Ash (gms/lt.)
up to 0.5	30	10
0.5 - 1.0	45	15
1.0 - 2.0	60	15
2.0 - 4.0	70	20
Above 4.0	90	20



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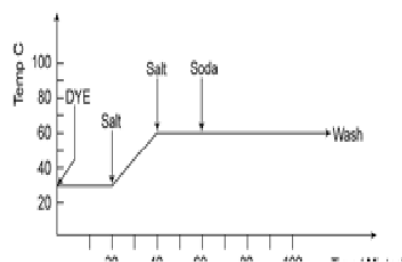
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### 'F/XL' Dyes (Bireactive Dyes)

#### Feature :

- Good dyeing performance.
- Excellent wet fastness properties.
- Ease of washing off. Suitable for dyeing, padding & printing.
- Excellent leveling, better reproducibility, high exhaustion and high fixation.
- Suitable for piece & yarn in all type of dyeing equipments.

#### Exhaust Dyeing : Standard Method :





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Minutes Starting	Load machine-Run liquor and/or fabric. Set the dye bath at 30°C. Add pre dissolved dye.
20	Add half of pre dissolved Glauber's salt. Continue dyeing while rising the temperature to 60-65°C.
20	Add reminder of Glauber's salt. Continue dyeing at 60-65°C.
15	Add soda ash solution. Continue dyeing at 60-65°C.
60	Continue dyeing at 60-65°C. Wash.

**Salt & Alkali Requirement :**

Depth of Shade %	Salt gms/lt.	Soda Ash (gms/lt.)
Up to 0.5	30	10
0.5 - 1.0	40	15
1.0 - 2.0	50	15
2.0 - 4.0	60	20
Above 4.0	60	20

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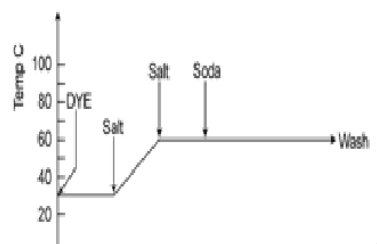
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### 'RFD/HF' Dyes

#### Feature :

- Good dyeing performance.
- Excellent wet fastness properties.
- Ease of washing off. Suitable for dyeing, padding & printing.
- Excellent leveling, better reproducibility, high exhaustion and high fixation.
- Suitable for piece & yarn in all type of dyeing equipments.

#### Exhaust Dyeing : Standard Method :





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Minutes Starting	Load machine-Run liquor and/or fabric. Set the dye bath at 30°C. Add pre dissolved dye.
20	Add half of pre dissolved Glauber's salt. Continue dyeing while rising the temperature to 60-65°C.
20	Add reminder of Glauber's salt. Continue dyeing at 60-65°C.
15	Add soda ash solution. Continue dyeing at 60-65°C.
60	Continue dyeing at 60-65°C. Wash.

**Salt & Alkali Requirement :**

Depth of Shade %	Salt gms/ltr.	Soda Ash (gms/ltr.)
Up to 0.5	30	10
0.5 - 1.0	40	15
1.0 - 2.0	50	15
2.0 - 4.0	60	20
Above 4.0	60	20

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