



**BETTER CHEMISTRY,
BETTER LIFE...**

**Manufacturer & Exporter
of Reactive Dyes**



Eriotic 'D' Series of Reactive Dyes

To implement the concept of Reactive Dyeing with high tinctorial values along with better fixation, our Eriotic 'D' Series High Exhaust Reactive Dyes, being Spray Dried R/O products with minimal salt content, offer prudent solutions for Dye Houses. The performances of the products usually match the specifications set by International Retailers and Buying Houses like – Walmart, Gap, Adidas, Nike, Tommy Hilfiger, J.C. Penny, M & S and so on.

Salient Features of Eriotic 'D' Reactive Dyes

- Excellent build-up of shades in high as well as low liquor ratios.
- Consistently good reproducibility from batch to batch, reduces susceptibility to tonal variations at the time of dyeing combination shades.
- Have very good diffusion and migration at high temperature along with excellent penetration and levelness, especially for critical substrates, such as mercerized cotton, viscose, etc.
- Easy wash-off and post mercerization fastness properties.
- Robust to process variables giving Right Fast Time(RFT) results during dyeing.
- Have high fixation rate, good light fastness along with consistently high tinctorial values.
- Excellent all-round fastness properties to meet the International Standards.
- Satisfies the requirements set by major ecological standards.

Exhaust Dyeing

The process application adopted for Eriotic 'D' Reactive Dyes exhibit level dyeing with excellent reproducibility due to low dependence on dyeing parameters and high fixation behavior, thereby, easy to operate and control in dye house with minimum manual intervention.

The Dyeing Methods adopted depends exclusively on the type of cellulosic substrate, shade and machinery available.

The starting dyebath pH is set between 5.5 and 6.5 by using adequate quantity of Acetic Acid.

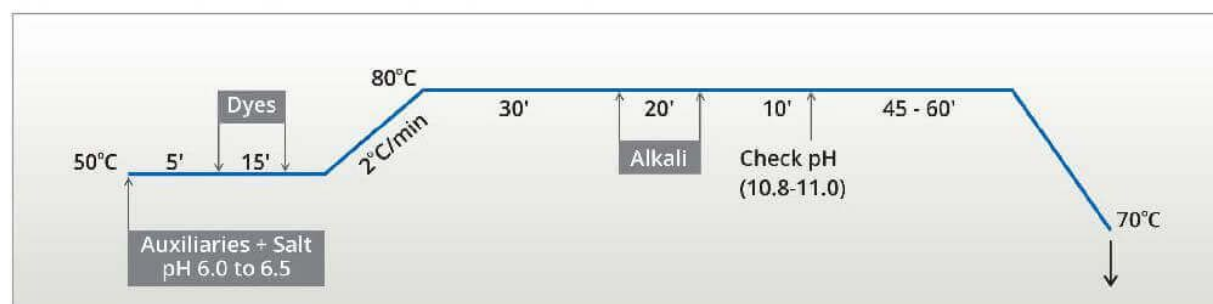
A general recipe for Dyebath Assistants during dyeing process with water of minimum hardness will be:

Acetic Acid	0.30 to 0.50 gpl
Sequestering Agent	0.50 to 1.00 gpl
Defoaming Agent	0.10 to 0.30 gpl
Lubricating Agent	0.25 to 0.40 gpl
Tri Sodium Phosphate	0.20 to 0.25 gpl

Dyeing Method

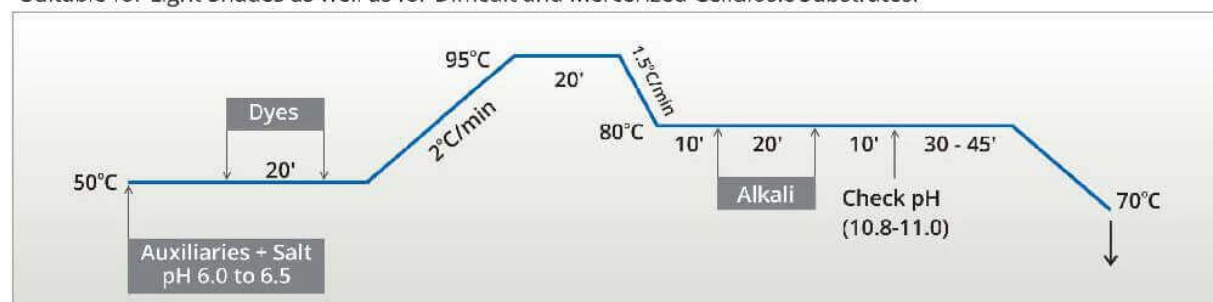
1. Isothermal Method :

Suitable for Medium and Dark Shades on Cellulosic Substrates.



2. Migration Method :

Suitable for Light Shades as well as for Difficult and Mercerized Cellulosic Substrates.



Salt and Alkali Requirement of Eriotic 'D' Reactive Dyes

Depth of Shade (% owf)	Sodium Chloride or Anhydrous Sodium Sulphate(g/l)		Alkali (g/l)	
	Unmerc. Cotton	Merc. Cotton/Viscose	Soda Ash	Soda Ash + Caustic Soda (100%)
Upto 0.10	10	5	10	5 + 0.2
0.11-0.30	20	10	10	5 + 0.2
0.31-0.50	30	20	10	5 + 0.2
0.51-1.00	45	30	15	5 + 0.2
1.01-2.00	60	40	15	5 + 0.5
2.01-4.00	70	55	20	5 + 0.5
Above 4.00	90	65	20	5 + 0.5

Notes:

- Glauber's Salt is recommended as electrolyte(Salt) for dyeing self shade .
- Soda Ash is always the preferred alkali. However, to reduce the amount of handling, the mixed alkali (Soda Ash & Caustic) can be used especially in dark shades.
- Caustic Soda used in mixed alkali should be originally in the flakes form.
- In case of dyeing of regenerated cellulosic, like-Viscose, Mixed Alkali should always be avoided.















Washing Off & After Treatment Method

Since the substantivity of Eriotic 'D' Reactive Dye depends on the concentration of electrolyte, it is imperative to remove as much salt and alkali as possible before soaping at the boil. The recommended sequence of washing off is:

- Hot wash at 70° C for 10 minutes.
- Another hot wash at 70° C for 10 minutes for medium to dark shades.
- Soaping at 95° C for 20 minutes with 0.5-1.0 g/l Anionic Soaping Agent.
- Second soaping at 95° C for 20 minutes with 0.5-1.0 g/l Anionic Soaping Agent for dark shades.
- Hot wash at 80° C for 10 minutes.
- Rinse until clear bath is observed.
- Neutralize and do necessary after treatment with Softener.

Important:

The following supersedes the Buyer's documents. This is intended to service as non-binding guidelines. Seller makes no representation or warranty, expressed or implied, including the fitness for a particular purpose. Data and results are based on controlled lab conditions and must be confirmed by Buyer by testing for the intended conditions of use.

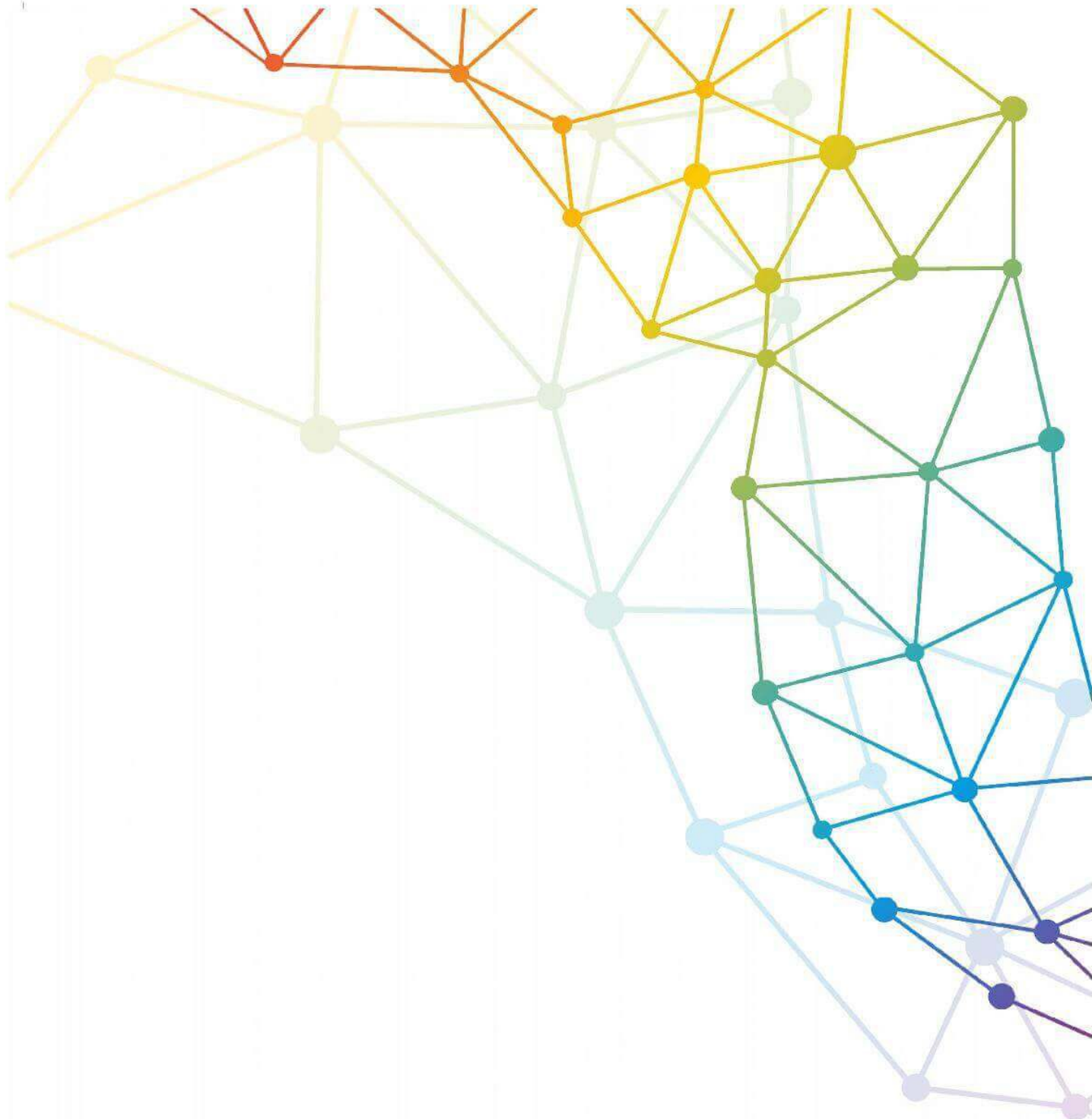
			Solubility(g/l) @80 °C		Dyeing Temperature(°C) [Exhaust Dyeing]
			Salt-Free Neutral Water	Water with 50 gpl Common Salt	
ERIOTIC REACTIVE DYES					
1%	4%	Product Name			
		ERIOTIC LEMON D3RX	80	20	80
		ERIOTIC CANARY D3RX	100	50	80
		ERIOTIC YELLOW D3RX	100	30	80
		ERIOTIC GOLDEN D3RX	70	60	80
		ERIOTIC ORANGE D3RX	80	<10	80
		ERIOTIC SAFFRON D3RX	45	5	80
		ERIOTIC RED D3RX	100	80	80

Light Fastness (1/1 S.D.)		OTHER FASTNESS PROPERTIES											
ISO 105 / B02	AATCC 16E - 20 AFU	Chlorinated Water (20 ppm Active Chlorine)	WASHING				CROCKING		PERSPIRATION (ISO 105-E04)				
			ISO 105-C06-C2S, @ 60 °C		AATCC TM 61-3A, @ 70 °C		ISO 105 - X12		Acidic		Alkaline		
			Shade Change	Shade Change	Staining Cotton	Shade Change	Staining Cotton	Dry	Wet	Shade Change	Staining Cotton	Shade Change	Staining Cotton
4-5	3.5	3	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5	
4-5	3	3	4-5	4-5	4-5	4-5	5	4-5	4-5	4-5	4-5	4-5	
5	3.5	4	4-5	4-5	4-5	4-5	5	4	4-5	3-4	4-5	3-4	
4-5	4	2-3	5	5	4-5	4-5	4-5	3-4	4-5	4-5	4-5	5	
3-4	2-3	4	4-5	4-5	4-5	4-5	4	3-4	4-5	4-5	4	4-5	
3-4	3	4	4	5	4	4	4-5	3	4	4-5	4-5	4-5	
5	3-4	4	4-5	4-5	4-5	4-5	4-5	3-4	4-5	4-5	4-5	4-5	

			Solubility(g/l) @80 °C		Dyeing Temperature(°C) [Exhaust Dyeing]
			Salt-Free Neutral Water	Water with 50 gpl Common Salt	
ERIOTIC REACTIVE DYES					
1%	4%	Product Name			
		ERIOTIC RUBY D3RX	100	70	80
		ERIOTIC BLUE D3RX	90	70	80
		ERIOTIC ROYAL D3RX	90	45	85
		ERIOTIC NAVY D3RX	100	60	80
		ERIOTIC GREEN D3RX	120	60	80

Light Fastness (1/1 S.D.)		OTHER FASTNESS PROPERTIES												
ISO 105 / B02	AATCC 16E - 20 AFU	Chlorinated Water (20 ppm Active Chlorine)	WASHING				CROCKING		PERSPIRATION (ISO 105-E04)					
			ISO 105-E03		ISO 105-C06-C2S, @ 60 °C		AATCC TM 61-3A, @ 70 °C		ISO 105 - X12		Acidic		Alkaline	
			Shade Change	Shade Change	Staining Cotton	Shade Change	Staining Cotton	Dry	Wet	Shade Change	Staining Cotton	Shade Change	Staining Cotton	
4-5	3	4	4-5	4-5	4-5	4-5	4-5	3-4	4-5	4-5	4	4-5		
5	4	3	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4	4-5		
5	3-4	2	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5		
4	2-3	3-4	4-5	4-5	4-5	4-5	4	3-4	4	4-5	4	4-5		
4	4	1-2	4-5	4	4	4	4	3-4	4	4	4	4		

Pattern Illustration : On R.F.D. Cotton by Exhaust Process



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