Advantages

- Hetero bifunctional dyes for medium to deep shades
- Wide range of products to cover broad shade gamut
- Very good build-up behaviour
- Good fastness level & good reproducibility
- Resistant to oxidative bleach damage

Product placement

Medium shades - Yellow KF-R
Red KF-3B
Blue KF
Royal Blue KFG

Deep Shades - Yellow KF-R
Red KF-7B
Navy KF

Support dyes - Yellow KF-2G
Yellow KF
Orange KF
Orange KF-2R
Red KF
Red KF-2B

Jet Blacks - Neutral Strong Black - Black KF

Abbreviations

Bl - Bluer
Br - Brighter
Dl - Duller
Dk - Darker
G - Greener
R - Redder
Y - Yellower
S - Suitable
NS - Not suitable

Dischargeability

D - Dischargeable
F - Fair (Partial dischargeable)
P - Poor (Non dischargeable)

Kiri Industries Limited
Future Full of Colours.....

Works: Plot no 299/1/A&B,
Near Water Tank, Phase-II, GIDC,
Vatva, Ahmedabad - 382 445. Gujarat, India.
Phone: 91-79-25894477, 25835297, 40237444
Fax: 91-79-25834960
E-mail: engage@kiriindustries.com,
techservices@kiriindustries.com

www.kirlindustries.com

Kiractive KF Dyes

Product Placement Chart

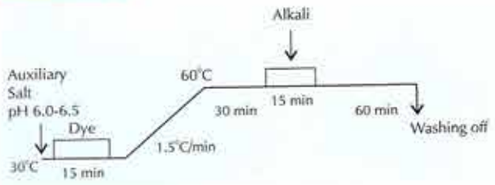
Economical ..... All Purpose ..... Value Added

Products	Placement	Warm exhaust	Hot exhaust	Cold pad batch	Pad dry chemical pad steam	Printing
Kirazol KR	Difficult shades	S		S	S	
Kirazol KX Conc.	High performance dyeing (deep shades)	S		S	S	
Kirazol KX	High performance dyeing (Md - Dp shades)	S		S	S	
Kiractive P	High performance printing					S
Kiractive KF	Better reproducibility	S		S		
Kirazol KV	High strength shades	S		S	S	
Kiractive HE	Economical high temperature dyeing		S			
Kiractive ME	Economical warm exhaust dyeing	S		S		
Kirazol VS	Commodity multi-use vinyl sulphone	S		S	S	S

Kiractive KF Dyes

1%	4%	Product Name	Processes: Exhaust Dyeing	Processes: Semicontinuous Dyeing	Processes: Continuous Dyeing	Dischargeability	Solubility g/l: Water - 30°C	Solubility g/l: Salt (90 g/l) - 50°C	Light Fastness: AATCC 16E 1/1	Light Fastness: AATCC 16E 1/3	Light Fastness: ISO BO2 1/1	Light Fastness: ISO BO2 1/3	Washing CO3: Change in colour	Washing CO3: Stain (cotton)	Water E01: Change in colour	Water E01: Stain (cotton)	Perspiration E04 Acidic: Change in colour	Perspiration E04 Acidic: Stain (cotton)	Perspiration E04 Alkaline: Change in colour	Perspiration E04 Alkaline: Stain (cotton)	Rubbing X12: Dry Rubbing	Rubbing X12: Wet Robbing	M&S C10A: Change in colour (Damage to Oxidative Bleach)	Chlorinated Water 20mg/lit
		Yellow KF-2G	S	NS	NS	D	120	100	4	3-4	6	5	4-5 / R	4	4-5	4-5	4-5	4-5	4-5 / R	4-5	5	4	4 / R	3 / R, DI
		Yellow KF-R	S	S	S	F	200	200	4-5	4-5	5	4-5	4-5 / R	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5	4	4-5 / R	3 / G, DI
		Yellow KF	S	S	NS	F	200	200	4-5	4	5	4-5	4-5 / R	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	3-4 / G,DI
		Orange KF	S	NS	NS	D	200	200	4-5	4	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	3-4 / DI
		Orange KF-2R	S	NS	NS	P	60	< 20	3	2-3	3-4	3	4-5	3-4	4-5	4-5	4-5 / R	4-5	4-5	4-5	4-5	4	4-5	4 / R
		Red KF	S	S	NS	P	200	200	3-4	3	3	2-3	4-5 / DI	3	4-5 / DI	4-5	4-5 / Br	4-5	4-5 / BI,DI	4-5	4-5	3-4	4-5 / BI, DI	3
		Red KF-2B	S	S	NS	P	200	200	3-4	3	3-4	3	4-5	4-5	4-5	4-5	4-5	4-5	4-5 / BI	4-5	4-5	3-4	4-5 / DI	2-3
		Red KF-3B	S	S	NS	P	200	200	4	3-4	4	3-4	4-5	4	4-5	4	4-5 / Br	4-5	4-5 / BI	4	4-5	3-4	4-5	4
		Red KF-7B	S	S	NS	P	200	200	4	3-4	4	3-4	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-4	4-5	4
		Royal Blue KFG	S	NS	NS	P	60	< 20	4	4	4	4	4-5	4	4-5	4	4-5	4	4-5	4	3-4	2-3	4 / GR	3-4 / DI
		Blue KF	S	NS	NS	P	100	< 20	4	3-4	4	3-4	4-5	4	4-5	4-5	4-5	5	4-5	5	5	3-4	3-4	3 / Y, DI
		Navy KF	S	S	NS	D	200	150	3-4	3	3-4	2-3	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-4	2-3 / DI	3 / G, DI
3%	6%	Fastness at 6% depth																						
		Black KF	S	S	NS	F	200	200	4	---	4	---	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3	3-4	3 / R, DI
		Black KFR	S	S	S	D	200	200	4	-	4	-	4-5	4	5	4-5	5	4-5	5	4-5	4-5	3	4-5	3-4 / DI
		Black KFG	S	S	S	D	200	200	4	-	4	-	5	4-5	5	4-5	5	4-5	5	4-5	4-5	3	4-5 / G	3-4 / DI

Exhaust Dyeing



Single Alkali Method

Salt and Alkali Requirements

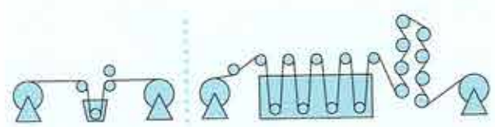
% Dye	Common Salt (g/l)	Soda Ash (g/l)
< 0.1	20	5
0.1 - 0.5	20 - 25	5 - 7
0.5 - 1.0	25 - 40	7 - 10
1.0 - 2.0	40 - 50	10 - 13
2.0 - 3.0	50 - 60	13 - 15
3.0 - 5.0	60 - 80	15 - 20
5.0 - 7.0	80 - 90	20
> 7.0	100	20

Mixed Alkali Method

Salt and Alkali Requirements

% Dye	Common Salt (g/l)	Soda Ash (g/l)	Caustic Flakes (g/l)
< 0.1	20	5	0
0.1 - 0.5	20 - 25	5	0.3 - 0.38
0.5 - 1.0	25 - 40	5	0.38 - 0.45
1.0 - 2.0	40 - 50	5	0.45 - 0.6
2.0 - 3.0	50 - 60	5	0.6 - 0.75
3.0 - 5.0	60 - 80	5	0.75 - 1.0
5.0 - 7.0	80 - 90	5	1.0
> 7.0	100	5	1.0

Cold Pad Batch Dyeing



Mixing pump required
Add 10 - 100 g/l Urea to dye liquor (necessary for solubility)

Silicate Method

Dye (g/l)	Sodium Silicate (38° Be)	Caustic Flakes (g/l)
< 5	100 ml/l	2
10 - 20	100 ml/l	3 - 3.5
20 - 30	100 ml/l	3.5 - 4.0
30 - 40	100 ml/l	4.0 - 4.5
40 - 60	100 ml/l	4.5 - 5.0
60 - 80	100 ml/l	5.0 - 5.5
80 - 100	100 ml/l	5.5 - 7.0

Batch 16 hrs at 25 °C

Silicate Free Method

Dye (g/l)	Soda ash (g/l)	Caustic Flakes (g/l)
20	30	2
40	30	3
60	30	4
80	30	5
100	30	6
>100	30	7

Batch 24 hrs at 25 °C