

丽源素®
LIYUANSOL®

经典型 活性染料

CLASSIC SERIES



COLOR ROOT

湖北丽源科技股份有限公司
HUBEI COLOR ROOT TECHNOLOGY CO.,LTD

丽源素 经典型 活性染料 纤维素纤维染色

LIYUANSOL CLASSIC Series For Cellulose

- 1、全色谱, 稳定的染色性能
Full range of shades, stable dyeing properties
- 2、广泛的适用性, 可用于浸染、轧染、冷轧堆
Wide application performance suitable for exhaustion, continuous and CPB dyeing
- 3、能够满足各主要色牢度的要求
Can achieve mainly fastness requirement
- 4、经典型染料, 含乙烯砷与一氯均三嗪基团
Classic reactive dyes based on vinyl sulfone and monochlorotriazine group

丽源素经典型染料 LIYUANSOL CLASSIC		溶解度 Solubility 50°C	耐晒色牢度 Light fastness ISO 105-B02		耐洗色牢度 Washing fastness ISO 105-C08 C1S		耐汗渍色牢度 Perspiration AATCC 15		耐氯水色牢度 Chlorinated water ISO 105-E03	耐摩擦色牢度 Rubbing fastness AATCC 8
2.0 %		g/L	1/6SD	1/1SD	CH	CO	CH	CO	10ppm	干Dry / 湿Wet
嫩黄4GL Flavine		100	5-6	6	4-5	4-5	5	5	4-5	4-5/3-4
黄3RF Yellow		100	5	5-6	4-5	4-5	5	5	4-5	4-5/3-4
黄3RE150% Yellow		100	5	5-6	4-5	4-5	5	5	4-5	4-5/3-4
金黄RNL G. Yellow		100	4-5	5	5	5	4-5	4-5	4	5/4
艳橙3R Br. Orange		150	3-4	4-5	5	5	4-5	4-5	4	5/4
橙F-2R Orange		80	3-4	4	4-5	4	4-5	4	4-5	4-5/3-4
大红F-2G Scarlet		100	3-4	4	4-5	4-5	4-5	4-5	4-5	4/3
大红GGN Scarlet		80	3-4	4	4-5	4-5	4-5	4-5	4-5	4/3
艳红F-6B Br. Red		70	3-4	4-5	5	4-5	4-5	4-5	4	4-5/3
红F-2B Red		100	3-4	4	4-5	4-5	4-5	4-5	4	4-5/3
红3BF Red		100	4	4-5	4-5	4-5	5	4-5	4-5	4-5/3
红3BE150% Red		100	4	4-5	4-5	4-5	5	4-5	4-5	4-5/3
红BES Red		100	4	4-5	4-5	4-5	5	4-5	4	4-5/3
红RB Red		100	4	4-5	4-5	4-5	5	4-5	3-4	4-5/3

备注Note: □可拔白 Fully Dischargeable, ▣拔白可能泛黄 Semi-Dischargeable, yellowish may occur, ◻可浅色拔白 Dischargeable for pale shade, ■不可拔白 Not Dischargeable, CH=色变 Color change, CO=棉沾 Cotton staining

5、经济型高品质活性染料，性价比高

Economical reactive dyestuff in reliable quality and performance, Higher cost effectiveness

6、多种产品可用于拔白，防印工艺

Some suitable for discharge / resist printing

7、鲜艳色彩拓展了色空间，拼色更容易

More brilliant shades enlarge color space and make color matching easier

8、翠兰/艳绿和藏青的多重选择

Multiple choice for turquoise / brilliant green and navy

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2.0 %			g/L	1/6SD	1/1SD	CH	CO	CH	CO	10ppm	干Dry / 湿Wet
红BS Red	■		100	4	4-5	4-5	4-5	5	4-5	3-4	4-5/3
深红EX-D Deep Red	■		100	4	4-5	4-5	4-5	5	4-5	3-4	4-5/3
红E-3B Red	□		100	3-4	4	5	4-5	5	4-5	4-5	4-5/3-4
紫5R Violet	■		100	6	6-7	4-5	4-5	4B	5	4-5	4-5/3-4
翠兰G150% Turq. Blue	■		100	5	6	4-5	3-4	5	4-5	3-4Y	4-5/3
翠兰G266% Turq. Blue	■		150	5	6	4-5	3-4	5	4-5	3-4Y	4-5/3
艳蓝R s/p Br. Blue	■		100	6	7	4-5	4-5	5	5	4-5	4-5/3-4
宝石蓝RN Sapphire	■		80	6	6-7	4-5	4-5	5	5	4-5	4-5/3-4
蓝BB133% Blue	□		100	6	7	5	4-5	4-5	4-5	4	5/3-4
蓝BF Blue	■		100	4	4-5	4-5	4-5	4-5	4-5	4	4-5/3
蓝M-2GE Blue	■		80	3-4	4	4-5	4	4	4-5	3-4	4/3
藏青GG Navy	□		100	3-4	4	4-5	4-5	5	4-5	3-4	4-5/3
藏青FR-GB Navy	□		100	3-4	4	4-5	4-5	5	5	3-4	4-5/3

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丽源素 经典型 活性染料, 纤维素纤维染色

LIYUANSOL CLASSIC Series For Cellulose

深黑系列 Jet Black Series



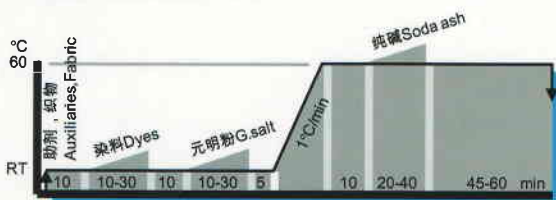
- 1、经济型深黑-易清洗
Economical deep black - easy washing off
- 2、全面优良的水洗色牢度
General good washing fastness
- 3、显著的高质量, 可信赖的高接触色牢度
Remarkable high quality and reliable contact fastness

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6.0 %		g/L	1/6SD	1/1SD	CH	CO	CH	CO	10ppm	干Dry / 湿Wet
黑B 150% Black		100	3	4	4-5	4-5	5	4-5	3-4	4-5/2-3
藏青L-3G Navy		100	3	4	4-5	4-5	5	4-5	3-4	4-5/2-3
黑FL-N Black		100	3	4	4-5	4-5	5	4-5	3-4	4-5/2-3
黑ED-G Black		100	3	4	4-5	4-5	5	4-5	3-4	4-5/2-3
黑WNN Black		100	4	4-5	4-5	4	5	4-5	4	4-5/2-3
黑FWN Black		100	3-4	4	4-5	4	5	4-5	4	4-5/2-3
黑DN Black		100	4	4-5	4-5	4	5	4-5	4	4-5/2-3
黑FW-GR H/C Black		100	3-4	4	4-5	4	5	4-5	3-4	4-5/2-3
黑R H/C Black		100	4	4-5	4-5	4	5	4-5	3-4	4-5/2-3
黑BSP Black		100	4	4-5	4-5	4	5	4-5	4	4-5/2-3
黑L-ED Black		100	3	4	4-5	4-5	5	4-5	3-4	4-5/2-3

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浸染工艺 Exhaustion Dyeing Process

中温染色 Warm Dyeing, 60°C



盐碱表 Chemical Dosage

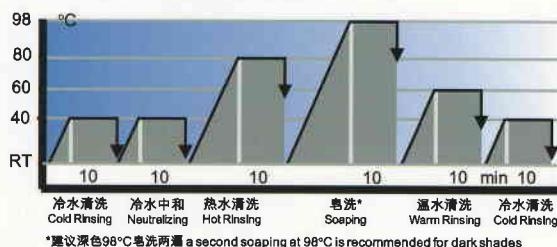
非丝光棉, non-mercerized cotton, LR10:1

染料 Dyestuff	%	<0.5	0.5-1	1-2	2-3	3-5	>5
元明粉 Glauber's Salt	g/L	25	30	40	50	70	100
纯碱 Soda Ssh	g/L	5	8	12	15	20	20

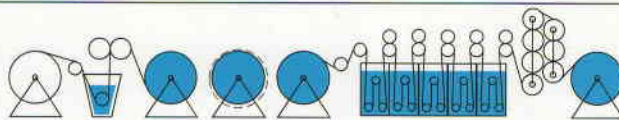
高温移染/中温染色 Migration / Warm Dyeing 80 / 60°C



浸染后清洗 Exhaustion Washing off



冷轧堆工艺 Cold-Pad-Batch Process

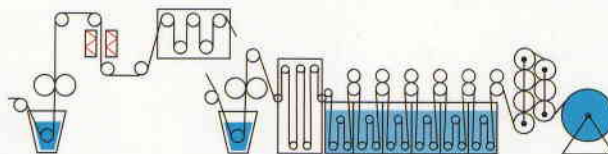


浸轧 Padding → 25°C 堆置 Batching 8-12 hrs → 后清洗 Washing Off

染液 Dye liquor, 20-25°C		
X	g/L	活性染料 Reactive Dye
2-4	g/L	润湿剂 Wetting Agent
100	g/L	尿素 Urea, 需要时 If Necessary

碱用量 Alkali Dosage, 20-25°C						
染料 Dyestuff	g/L	20	40	60	80	100
纯碱 Soda Ash	g/L	30				
烧碱 Caustic Soda	g/L	3	4	5	6	8

轧干轧蒸工艺 Pad-Dry-Pad-Steam Process

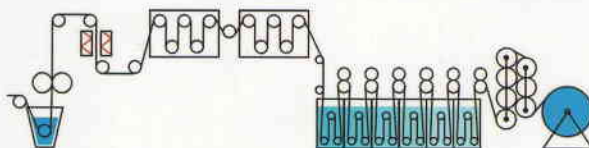


浸染染液 Padding Dye Liquor → 红外预烘 IR Predrying → 热风 Hot air 100-130°C → 浸轧碱液 Padding Chemicals → 饱和汽蒸 Saturated steam 45-90 sec. → 后清洗 Washing Off

染液 Dye liquor, 轧余率 PU50-70%		
X	g/L	活性染料 Reactive Dye
2-4	g/L	润湿剂 Wetting Agent
5-10	g/L	防泳移剂 Anti-migration Agent
5-10	g/L	防染盐 Resist Salt

固色碱Chemicals, 轧余率PU70-80%				
染料 Dyestuff	g/L	<20	20-30	>30
氯化钠Common Salt	g/L	250		
纯碱Soda Ash	g/L	20		
烧碱Caustic Soda	g/L	3	4	5

轧烘焙工艺 Pad-Dry-Thermofix Process



浸染 Padding, PU50-60% → 干燥 Drying 110-130°C → 烘焙 Thermofix 140°C 60sec → 后清洗 Washing Off

染料 Dyestuff	g/L	<10	10-30	30-60
尿素 Urea	g/L	20	20-50	50
润湿剂 Wetting Agent	g/L	2-5		
抗泳移剂 Anti-Migration Agent	g/L	10-20		
纯碱 Soda Ash	g/L	10	15	20



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Disclaimer: The testing data in this pattern card is obtained from our company Lab. We will not undertake any risk caused by this. Every factory has difference in index data because of different process, dyeing material, water, chemicals etc. as such factors, the data is just for your reference. Your lab experiment is highly suggested before initiating mass-production.

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