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天津永棣进出口有限公司
Tianjin Leading Import & Export Co.,Ltd

COMPANY INTRODUCTION

Tianjin Leading Import & Export Co., Ltd. , established since 1997, is one of the professional global providers of dyes and pigments, which is widely used in the industry of textile, leather, paper, wood, plastic, coating, ceramic, detergent, cosmetics, metal, petroleum, and agriculture.

Especially, we focus our work on manufacture, R&D, and marketing of textile dyes and textile auxiliaries. With qualified product and full-range technical support, our performance is satisfied by all the customers from various countries.

Regarding R&D section, we have a group of knowledgeable and experienced engineers, and work jointly with some famous institutes, which ensure us continuously to introduce new product and fresh finishing technology to our end users.

Regarding marketing team, we are hard-working, closely cooperative, willing to understand customer' s requirement. Therefore, prompt shipment and all-inclusive service is available anytime from us. Meanwhile, we can give a key-to-lock application solution quickly once our end users need help.

Regarding production unit, with total quality control system, we ensure our product meet international standard. In additional, we strive on decreasing unit energy consumption and unit pollution discharge by equipment investment and technology optimization.

We believe honesty is the only principal to success.

We follow "respect, understand, innovation" as our company culture.

We do our utmost to make our product and service better and better.



03

ACID DYES

05

BASIC DYES

07

DIRECT DYES

09

SULPHUR DYES

11

VAT DYES

13

NAPHTHOL DYES



COTTON



LEATHER



WOOL



SYNTHETIC FIBER



INK

















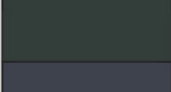





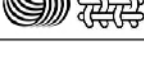


PAPER



WOOD

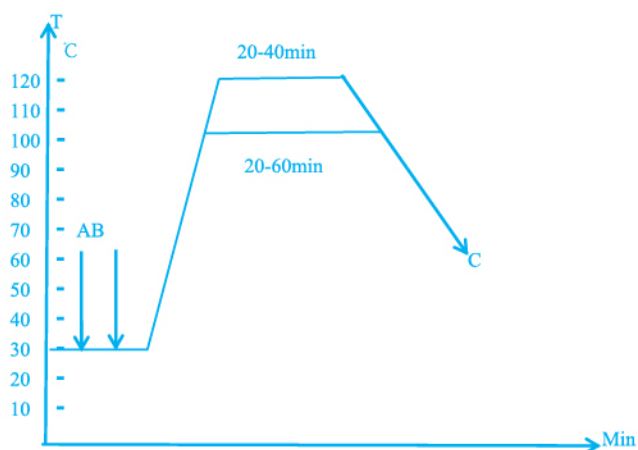
ZDH[®] Acid Dyes

Color	Product Name	C. I. No.	Fastness				Application
			Light	Soaping	Rubbing		
					Dry	Wet	
	Acid Light Yellow G	Yellow 11	5-6	4-5	5	4-5	
	Acid Yellow 2G	Yellow 17	5-6	4-5	5	4-5	
	Metanil Yellow	Yellow 36	3-4	4	4-5	4	
	Acid Orange II	Orange 7	4	4	4-5	3-4	
	Carmoisine	Red 14	6	3-4	4-5	3-4	
	Acid Brilliant Scarlet 3R	Red 18	3-4	4-5	3	4-5	
	Acid Rhodamine B Extra	Red 52	3	3-4	5	2	
	Acid Brilliant Red MOO	Red 73	4-5	4	2-3	4	
	Acid Blue AS	Blue 25	5-6	3	4-5	4-5	
	Acid Ink Blue G	Blue 93	-	-	-	-	
	Acid Black 10B	Black 1	6-7	4-5	4	2-3	
	Acid Black ATT	Mixture	6-7	4-5	4-5	3	
	Nigrosine Black Granular	Black 2	5-6	4-5	5	-	
	Neuter Black S-RL	Black 172	7	4-5	-	-	
	Neuter Black M- RL	Black 194	7	4-5	-	-	

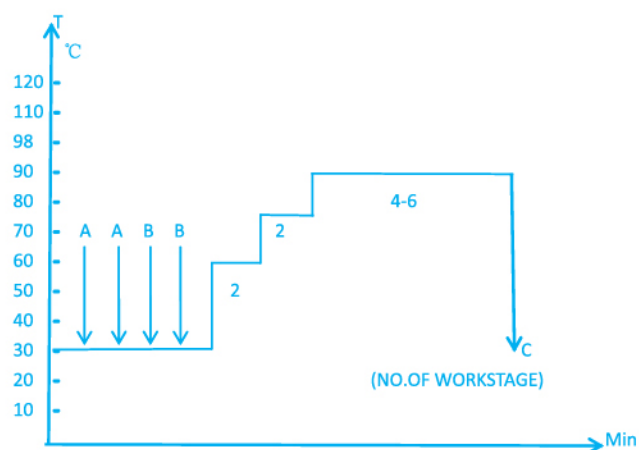


Application of Acid dyes

1.Exhaust dyeing






















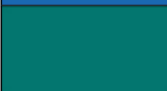































2.Jig dyeing



- A.Acid Leveling Agent.....1-3%
- Foam Suppressor And Weting Agent.....0.2-0.5%(G/L)
- Ammonium Sulphate.....1-2(G/L)
- B.Dyestuffs.....X%
- C.Washing

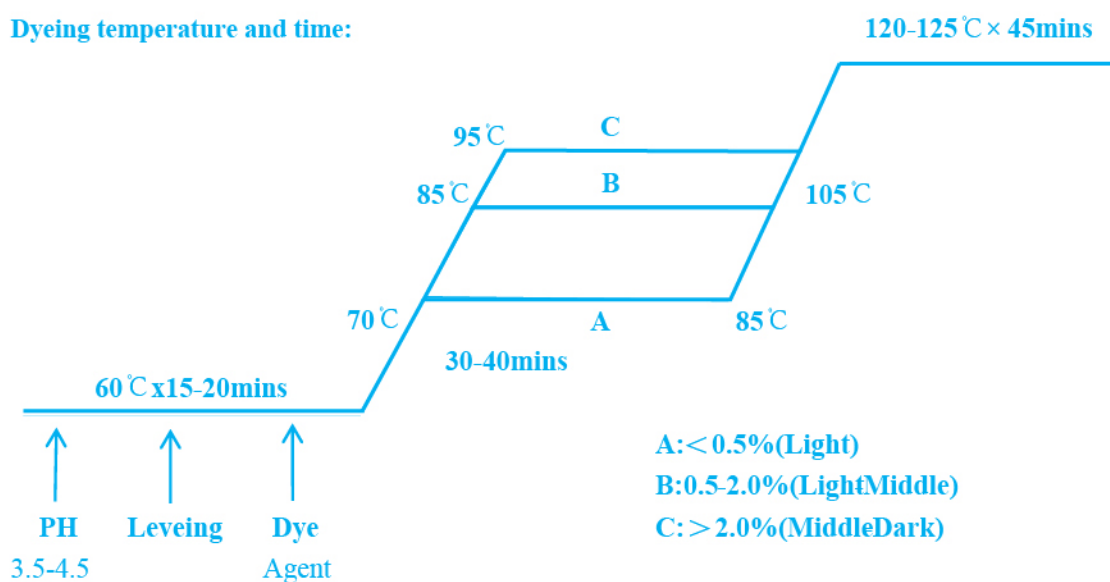
ZDH[®] Basic Dyes

Color	Product Name	C. I. No.	Fastness				Application
			Light	Soaping	Rubbing		
					Dry	Wet	
	Auramine O Conc	Yellow 2	1-2	3	4-5	4-5	 
	Chrysoidine Crystal	Orange 2	1-2	2-3	4-5	2-3	 
	Rhodamine 6 GDN	Red 1	2	3-4	—	—	 
	Methyl Violet 2B Crystal	Violet 1	1	1-2	—	—	 
	Rhodamine B Extra	Violet 10	1-2	3-4	4	3-4	 
	Victoria Pure Blue BO	Blue 7	1-2	4	3-4	2-3	 
	Methylene Blue BB	Blue 9	1	2-3	3-4	2-3	 
	Malachite Green Crystal	Green 4	2	3	4	3-4	 
	Bismark Brown G	Brown 1	1	3-4	4	3-4	 
	Cationic Yellow X-8GL	Yellow 13	5-6	4-5	5	5	 
	Cationic Golden Yellow X-GL	Yellow 28	6-7	4-5	5	4-5	 
	Cationic Ationic Brill. Flavine X-10GFF	Yellow 40	3-4	4-5	5	4	 
	Cationic Pink X-FG	Red 13	4-5	4-5	4-5	5	 
	Cationic Brill. Red X-5GN	Red 14	3-4	4-5	5	4	 
	Cationic Red X-GRL	Red 46	6-7	4-5	4-5	4	 
	Cationic Red 3R	Violet 16	4	5	4-5	5	 
	Cationic Blue X-BL	Blue 159	7	5	5	4-5	 
















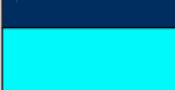


Application of Cationic Dyes






















Dyeing temperature and time:



Note: after dyeing, washing with water for light, reducing washing with Na_2CO_3 1-2g/l, Na_2SO_4 2g/l, for middle and dark
 Finalized: 170-180°C x 30mins

ZDH[®] Direct Dyes

Color	Product Name	C.I.No.	Fastness				Application
			Light (Xenon)	Washing	Rubbing		
					Dry	Wet	
	Direct Yellow R	Yellow 11	3-4	2-3	4	2-3	 
	Chrysophenine GX	Yellow 12	2	2-3	4	3	 
	Direct Fast Light Yellow 5G	Yellow 27	5	2	4-5	2-3	 
	Direct Fast Yellow D-RL	Yellow 86	6	2-3	4-5	3	 
	Direct Orange S	Orange 26	2	1-2	4-5	3	 
	Direct Fast Orange D-GGL	Orange 39	6-7	4	4-5	3-4	 
	Direct Scarlet 4BS	Red 23	2-3	3	3	2	 
	Congo Red	Red 28	2	3	3	2	 
	Direct Pink 12B	Red 31	2	3	4-5	2	 
	Direct Red FGG	Red 224	3-4	4-5	3-4	3	 
	Direct Rose D-FR	Red 227	3	4-5	4	3	 
	Direct Fast Red BWS	Red 243	5	4-5	3-4	3	 
	Direct Bordeaux FBA	--	2	2-3	4-5	3	 
	Direct Sky Blue 5B	Blue 15	1-2	2-3	4-5	3	 
	Direct Fast Blue B2R	Blue 71	5-6	3-4	4	2-3	 
	Direct Fast Turq. Blue GL	Blue 86	6-7	2	4	3	 
	Direct Fast Blue FFRL	Blue 108	6	4	4-5	3	 

Color	Product Name	C.I.No.	Fastness				Application
			Light (Xenon)	Washing	Rubbing		
					Dry	Wet	
	Direct Copper Blue 2B	Blue 151	5	2-3	4-5	3	 
	Direct Fast Turq. Blue FBL	Blue 199	6-7	3	3-4	2-3	  
	Direct Fast Brill Blue GL	Blue 293	5	4	5	4-5	 
	Direct Dark Green BN	Green 6	3	2	4	3-4	 
	Direct Deep Brown MN	Brown 2	3-4	3-4	4-5	2	 
	Direct Brown GTL	Brown 210	7	4-5	4	3	 
	Direct Red Brown RN	Brown 95	3-4	3	4-5	3	 
	Direct Fast Black G	Black 19	4	4-5	4	2	 
	Direct Fast Black VSF	Black 22	6	4-5	4-5	3	 
	Direct Black EX	Black 38	4	3	4	3	 

Application of Direct Dyes

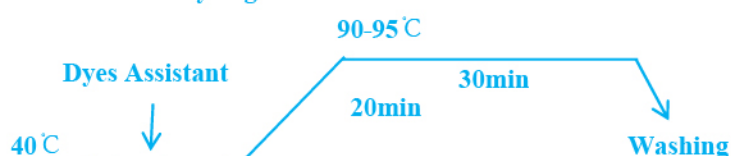
1. Exhaust dyeing

1.1 Recipe of dyeing bath

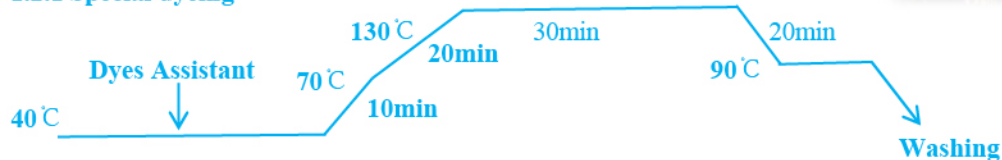
Dyeing method	Weak alkali	Neutral
Dye, % (owf)	x	y
Na ₂ CO ₃ , % (owf)	1 ~ 2	-
Na ₂ SO ₄ , % (owf)	10 ~ 30	10 ~ 30

1.2 Dyeing procedure







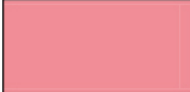

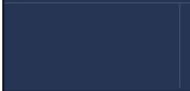











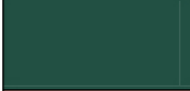





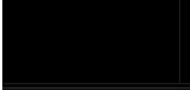



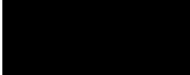


1.2.1 Common dyeing



1.2.1 Special dyeing



ZDH[®] Sulphur Dyes

Color	Product Name	C.I.NO	Fastness				Application
			Light	Washing	Rubbing		
					Dry	Wet	
	Sulphur Light Yellow GC 250%	Yellow 2	3-4	4	4-5	3	
	Sulphur Yellow Brown GDR 100%	Orange 1	3-4	3-4	3-4	2-3	
	Sulphur Bordeaux 3B 100%	Red 6	4	4	4	2-3	
	Sulphur Red LGF 100%	Red 14	4	4-5	4-5	—	
	Sulphur Fast Blue 3R 100%	Blue 5	5	3	4	2	
	Sulphur Blue BRN 150%	Blue 7	5-6	3-4	4-5	2	
	Sulphur Green Blue CV 120%	Blue 15	6-7	3-4	4	1-2	
	Sulphur Brill. Green GB 100%	Green 3	5	3	4-5	3	
	Sulphur Light Green 7713 300%	Green 14	6-7	4-5	4-5	2-3	
	Sulphur Olive Green 200%	Mix	5	3	3	2	
	Sulphur Dark Green	Mix	5	3	3-4	—	
	Sulphur Dark Brown GD 150%	Brown 4	4	4	4	2	
	Sulphur Yellow Brown 5G 150%	Brown 10	3	3-4	4	2-3	
	Sulphur Black BR 200%	Black 1	5	3	2-3	2	
	Solubilized Sulphur Black BR	Black 1	5	3	2-3	2-3	 
	Liquid Sulphur Black BR	Black 1	5	3	2-3	2	 



































Application of Sulphur dyes:







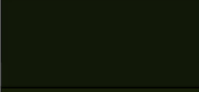

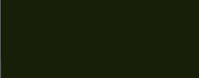



Note:

- ① A— Na_2CO_3 (g/L) ; B—x%(o.w.f.); C— Na_2S :dyes=2~1:1; D— Na_2SO_4 (5-10g/L) ;
- ② The dyes is applied in advance to the commendation(wetting);
- ③ After add dyes,usually heat at 1 °C/min,heating to 98-100 °C,and then keep the temperature 45-60 min for dyeing.
- ④ After dyeing,washing→ Oxidation of air or oxidants,40 °C and keeping 20min→washing→ drying

ZDH[®] Vat Dyes

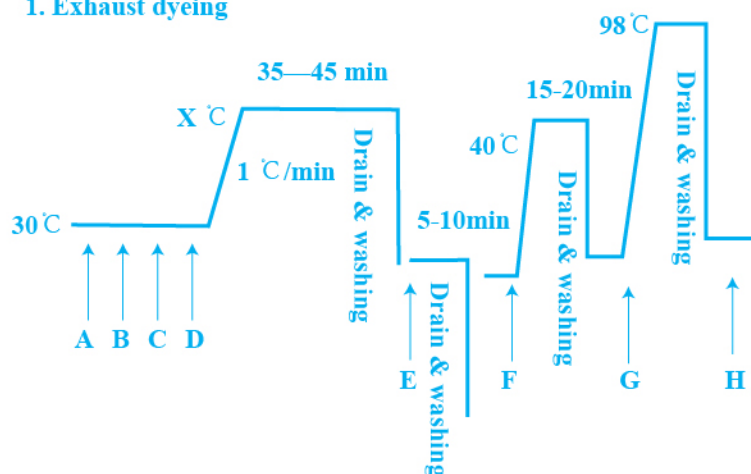
Color	Product Name	C.I. No.	Fastness					Application
			Light(Xenon)	Washing 95℃	Hypochlorite	Rubbing		
						Dry	Wet	
	Vat Yellow G	Yellow 1	4	3-4	4G	4-5	4	
	Vat Yellow GCN	Yellow 2	5	4	4	4-5	4	
	Vat Golden Yellow RK	Orange 1	6-7	5	5	4-5	3-4	
	Vat Brill. Orange GR	Orange 7	6-7	4	4-5	4	3-4	
	Vat Golden Orange G	Orange 9	6	4	4-5	4-5	3-4	
	Vat Pink R	Red 1	5-6	4	4-5	4-5	3-4	
	Vat Bordeaux 2R	Red 15	6-7	4-5	4-5	4	3	
	Vat Scarlet R	Red 29	6	4-5	5	2-3	2	
	Vat Violet 2R	Violet 1	7	4	4-5	4-5	3-4	
	Vat Violet 3B	Violet 9	7	4	4-5	4	3	
	Vat Blue RSN	Blue 4	7	3-4	2LT	4-5	3-4	
	Vat Pure Blue BC	Blue 6	7	4	3-4DT	3-4	3	
	Vat Dark Blue BO	Blue 20	6-7	2-3	4-5	4-5	3-4	
	Vat Green FFB	Green 1	7	4	4-5	4-5	3	
	Vat Olive Green B	Green 3	6-7	3-4	4-5	4-5	3-4	
	Vat Khaki 2G	Green 8	7-8	5	4	4	2	
	Vat Brown BR	Brown 1	7-8	5	4-5	4-5	3-4	

Color	Product Name	C.I. No.	Fastness					Application
			Light(Xenon)	Washing 95℃	Hypochlorite	Rubbing		
						Dry	Wet	
	Vat Brown R	Brown 3	6-7	4	4-5	4-5	3-4	
	Vat Brown G	Brown 68	6	4	4	4-5	3	
	Vat Direct Black RB	Black 9	7-8	4-5	4-5	3-4	2	
	Vat Olive T	Black 25	7	4	4	4	3-4	
	Vat Olive R	Black 27	7	4-5	4-5	4-5	4-5	













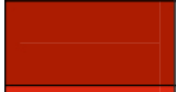







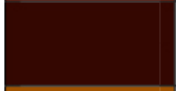



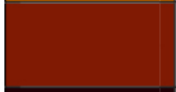







Application of Vat Dyes

1. Exhaust dyeing



- A — Soda Ash
- B — Dyes
- C — Levelling agent (as needed)
- D — Sodium Hydrosulfite
- E — Overflow washed for 5min, then washed 1-2 times.
- F — H₂O₂ (27%) 2-4% (O.W.F.) (the effective chlorine with 2g/L was oxidized for 20 ~ 30min when the black BBwas oxidized.)
- G — Soap lotion 3% (O.W.F.)
- H — Soft or other post-treatment.
- X — Dyeing temperature is determined by the dyes properties

ZDH[®] Naphthol Dyes

Color	Product Name	C. I. No.	Application	
	12g/l Scarlet RC Base	Naphthol AS	Azoic Coupling Component 2	
	10.20g/l Scarlet RC Base	Naphthol AS -BS	Azoic Coupling Component 17	
	10.20g/l carlet RC Base	Naphthol AS -BO	Azoic Coupling Component 4	
	11.2g/l Scarlet G Base	Naphthol AS -G	Azoic Coupling Component 5	
	10.8g/l Scarlet RC Base	Naphthol AS-OL	Azoic Coupling Component 20	
	10.8g/l Red RC Base	Naphthol AS-D	Azoic Coupling Component 18	
	10.8g/l Red KB Base	Naphthol AS-PH	Azoic Coupling Component 14	
	12g/l AS-BS	Fast Scarlet G Base	Azoic Diazo Component 12	
	12g/l AS	Fast Scarlet RC Base	Azoic Diazo Component 13	
	12g/l AS-D	Fast Bordeaux GP Base	Azoic Diazo Component 1	
	14g/l AS-G	Fast Red B Base	Azoic Diazo Component 5	
	12g/l AS	Fast Red RC Base	Azoic Diazo Component 10	
	12g/l AS-BS	Fast Garnet GBC Base	Azoic Diazo Component 4	
	14g/l AS-G	Fast Yellow GC Base	Azoic Diazo Component 44	
	12g/l AS-D	Fast Orange GC Base	Azoic Diazo Component 2	



Factory :



Laboratory :

