

DYES FOR TEXTILE

"Coloring the world, one pigment at a time."



Address;Room 2802, Building 8, Financial Silicon Valley, Yinzhou District,
Ningbo city Zhejiang province, China. 315000

Email: info@hilintek.com
Tel: 0086-19555157407
Website: www.hilintek.com





















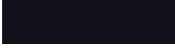
NINGBO HILIN TEK CO.,LTD.













Cationic Dyes	01
Basic Dyes	05
Disperse Dyes	06
Acid Dyes	18
VAT Dyes	28
Direct Dyes	32
Sulfur Dyes	40
Reactive Dyes	42
















Cationic Dyes	Product Name	Color Index Number	Fastness Properties								
			Dyeing Depth O.w.f. %	Compa- tibility	Satura- tion Factor	PH Range	Light(xenou) 1:1 standard depth	Washing (60°C)	Rubbing (Wet)	Iron (150°C)	Perspiration
	X-type (common) cationic dyes										
	Brill. Flavine Yellow X-10GFF 300%	Y40	0.50	3.5	0.50	2-5	3-4	4-5	5	4-5	4-5
	Brill. Flavine Yellow 7GL 500%	Y24	0.38	2	0.13	3-8	6-7	4-5	-	5	4-5
	Yellow X-8GL 250%	Y13	0.90	3.5	0.24	2-5	5-6	4-5	5	4	5
	Yellow X-5GL 400%	Y51	0.50	3	1.00	2-7	6	4-5	4-5	4-5	4-5
	Golden X-GRL 200%	Y29	0.90	2	0.17	2-7	5-6	5	5	4-5	5
	Golden yellow X-GL 200%	Y28	0.75	3	0.26	3-6	6-7	4-5	5	4-5	5
	Orange GL 200%	O21	0.50	1.5	0.26	2-6	4-5	4-5	5	3-4	5
	Brill Red X-5GN 250%	R14	0.72	3	0.27	2-7	3-4	4-5	5	4	5
	Pink FG 250%	R13	0.80	4	0.19	3-7	4-5	4-5	4-5	4	5
	Red X-GRL 250%	R46	0.80	2.5	0.43	2-7	6-7	5	5	4-5	5
	Red 2BL 200%	R22	0.80	5	0.38	2-7	6-7	5	5	4-5	5
	Red 2GL 250%	R29	0.65	2	0.23	3-7	7	4-5	4-5	4-5	5
	Red GTL 200%	R18	0.26	3	0.39	3-7	7	4-5	4-5	4	5
	Red GTLP 200%	R54	0.26	3	0.72	2-7	7	4-5	4-5	4	4-5

Cationic Dyes	Product Name	Color Index Number	Fastness Properties								
			Dyeing Depth O.w.f.%	Compa-tibility	Saturation Factor	PH Range	Light(Xenou) 1:1 standard depth	Washing (60°C)	Rubbing (Wet)	Iron (150°C)	Perspiration
	Red GTLN 200%	R18:1	0.26	3	0.39	3-7	7	4-5	4-5	4	5
	Red 3R 300%	V16	0.53	1.5	0.50	3-8	3-4	4-5	4-5	4	5
	Red 6B 200%	V7	1.2	3	0.26	4-6	3-4	4-5	4-5	4-5	5
	Violet 3BL 250%	B53	0.48	1.5	-	3-5	5	4-5	4-5	4	5
	Brill. Violet 5BLH 200%	mix	0.50	3	0.49	3-6	4-5	4-5	5	4-5	4
	Blue GSL 300%	B54:1	0.30	1.5	0.69	3-5	6-7	4-5	4-5	3-4	4-5
	Brill. Blue RL 500%	B54	0.30	1.5	0.69	3-5	6-7	4-5	4-5	3-4	4-5
	Blue X-FRL 200%	B162	1.40	3	0.14	3-6	4-5	4-5	4-5	4	4-5
	Blue X-BL 250%	B159	0.36	3	0.43	2-7	6-7	4-5	4-5	4-5	4
	Blue X-GRL 300%	B41	0.40	3	0.20	2-5	5-6	4	4-5	3-4	4-5
	Blue X-GRRL 250%	B41:1	0.40	3	0.20	2-5	5-6	4	4-5	3-4	4-5
	Turq. Blue GB 250%	B3	0.36	3.5	0.75	3-8	4-5	4-5	4-5	4-5	4-5
	Navy blue X-BRL 250%	mix	1.40	3	0.58	2-5	5-6	4-5	4	4	4-5
	Dark blue 2RN 200%	mix	1.60	3	-	3-6	4-5	4-5	4-5	4-5	4-5
	Dark blue RB 300%	mix	0.90	3.5	0.24	2-5	5-6	4-5	5	4	5

Cationic Dyes	Product Name	Color Index Number	Fastness Properties								
			Dyeing Depth O.w.f.%	Compa-tibility	Saturation Factor	PH Range	Light(Xenou) 1:1 standard depth	Washing (60°C)	Rubbing (Wet)	Iron (150°C)	Perspiration
	Dark brown X-3RL 250%	mix	1.50	3	0.51	2-5	5-6	4-5	4-5	4-5	4-5
	Black X-RL 100%	mix	3.00	3	0.55	3-6	5-6	4-5	4-5	4-5	4-5
	Black X-2RL 100%	mix	3.00	3	0.35	2-5	6	4	4-5	4	4-5
	Black X-5RL 200%	mix	2.00	3	1.00	3-6	5	4-5	4-5	4-5	4-5
	Black X-O 300%	mix	1.50	3	1.00	3-6	5	4-5	4-5	4-5	4-5
	Black FBL 200%	mix	2.00	3	-	3-6	4-5	4-5	4-5	4-5	4-5
	Black GLL 200%	mix	2.00	3	-	3-6	5	4-5	4-5	4-5	4-5
	Black FRH 200%	mix	2.00	3	1.00	3-6	5	4-5	4-5	4	4-5

Cationic Dyes	Product Name	Color Index Number	Fastness Properties				
			Dyeing Depth O.W.f.%	Light(xenou) 1:1 standard depth	Iron (150°C)	Rubbing (Wet)	Washing (60°C)
High strength SD-type (environment protection) cationic dyes							
	Yellow SD-5GL 200%	Y51	1.00	5	4-5	4-5	4-5
	Golden yellow SD-GL 200%	Y28	1.00	6-7	4-5	4-5	4-5
	Brill. Red SD-5GN 200%	R14	1.00	4	4	4-5	4-5
	Red SD-GTL 200%	R18	1.00	5-6	4-5	4-5	4-5
	Brill. Red SD-GRL 200%	R46	1.00	6-7	4-5	4-5	4-5
	Blue SD-GSL 200%	B54:1	1.00	6-7	4-5	4-5	4-5
	Blue SD-BL 200%	B159	1.00	5-6	4-5	4-5	4-5
	Turq. Blue SD-GB 200%	B3	1.00	4	4	4-5	4-5
	Navy blue SD-BRL 200%	mix	1.00	4	4	4-5	4-5
	Black SD-O 300%	mix	2.00	5-6	4	4	4-5
	Black SD-FBL 300%	mix	2.00	6	4	4	4
















Basic Dyes	Product Name	Color Index Number	Dyeing Depth O.W.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Auramine O	Y2	0.2	1	1	2	4-5	4-5
	Chrysoidine	O2	0.35	2	-	4-5	4	3-4
	Rhodamine 6GDN	R1	0.3	2	3	4-5	-	-
	Rhodamine 6GD	R1:1	0.3	2	3	4-5	-	-
	Methyl Violet 2B	V1	0.2	1	3-4	4-5	-	-
	Methyl Violet 5BN	V3	0.18	1	1-2	1-2	4-5	3
	Rhodamine B	V10	0.3	2	3	3-4	4	2-3
	Magenta	V14	0.3	5-6	-	4	4-5	3-4
	Malachite green	G4	0.1	4-5	-	4	4	4
	Victoria blue BO	B7	0.24	1	3-4	5	3-4	2-3
	Methylene blue BB	B9	0.5	1	1	2	3-4	2-3
	Victoria blue R	B11	0.3	1	3	-	-	-
	Victoria blue B	B26	0.3	1	3	-	3-4	2
	Brown G	Br1	1.2	2	4	4	3-4	3-4

Disperse Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.f.%	Light(xenon) 1:1 standard depth	Washing (95°C)	Sublimation (180°C×30sec)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Yellow G 100%	Y3	1.0	5	4	5	4-5	4	4
	Yellow RGFL 200%	Y23	1.0	7	4	4	5	4-5	4-5
	Yellow GWL 200%	Y42	1.0	7	5	5	5	5	5
	Yellow SE/2GFL 200%	Y50	1.0	6	4-5	4	4-5	4	4
	Yellow SE-2G 200%	Y56	2.0	6-7	5	5	5	4-5	4-5
	Yellow E-3G 200%	Y64	2.0	7-8	5	4-5	5	5	5
	Yellow S-G 200%	Y79	1.0	5-6	5	5	5	4-5	4
	Yellow 6GSL 200%	Y114	1.0	7-8	4-5	4-5	4-5	4-5	4-5
	Yellow C-5G 200%	Y119	2.0	6-7	5	5	5	5	5
	Brill. Yellow H-4GL 100%	Y134	2.0	7	5	5	5	5	5
	Yellow D-2G 100%	Y163	2.0	6-7	5	4-5	4-5	4-5	4-5
	Yellow 5GL 200%	Y198	1.0	6-7	4-5	4-5	4-5	4-5	4-5
	Yellow C-4G 200% 100%	Y211	2.0	7	4	3-4	5	5	5
	Yellow 5GL 200%	Y241	2.0	6	5	5	5	5	5
	Orange GR 100%	O3	2.0	3-4	3-4	4-5	4	4	4















Disperse Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.f.%	Light(xenon) 1:1 standard depth	Washing (95°C)	Sublimation (180°C×30sec)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Orange H3R 200%	O25	1.0	6	5	5	5	4-5	5
	Orange S-3GL 200%	O29	1.0	7	4	5	4-5	4	4
	Orange SE-2FLS 200%	O31	1.0	6-7	4-5	4-5	5	4-5	4-5
	Orange S-3RFL 200%	O44	1.0	7	4-5	4-5	4-5	3-4	4-5
	Yellow brown REL 200%	O61	1.0	6-7	5	4	5		
	Yellow brown GLS 200%	O62	2.0	6	4-5	4	5	4-5	4-5
	Orange F-SF 100%	O73	1.0	5-6	5	5	5	4-5	4-5
	Orange RSE 300%	O73:1	0.9	4	4	4	4	4-5	4-5
	Orange B-2R 200%	O76	1.0	7	4-5	4	4-5	4	4
	Orange SE-RH 200%	O288	1.0	5-6	4	4-5	4-5	3	3
	Scarlet B 200%	R1	2.0	4-5	3-4	3	5	3	3
	Rubine 3B 100%	R5	2.0	4	4-5	4	4	4	4
	Rubine B 200%	R13	1.0	4-5	3-4	3	4-5	4-5	5
	Red 2G 200%	R17	2.0	4-5	4-5	4-5	5	4	4
	Scarlet 5G 200%	R50	1.0	6-7	5	4-5	5	4-5	5








Disperse Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(Xenon) 1:1 standard depth	Washing (95°C)	Sublimation (180°C×30sec)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Scarlet S-3GFL 100%	R54	1.0	5-6	3-4	4-5	4	4-5	4
	Red FB 200%	R60	1.0	5-6	4-5	2-3	4-5	4-5	4-5
	Rubine SE-GFL 200%	R73	1.0	7	5	5	5	5	5
	Scarlet S-BWFL 200%	R74	1.0	5-6	4-5	5	-	3-4	4
	Red BBL 200%	R82	2.0	6-7	4-5	5	5	-	-
	Red R3L 200%	R86	2.0	6-7	4-5	4-5	4-5	3-4	4-5
	Brill pink REL 200%	R91	2.0	6-7	3-4	4	4-5	4	4-5
	Red FBL 200%	R92	2.0	5-6	4-5	4-5	4-5	5	4-5
	Red SE-BN 200%	R127	2.0	6	4-5	3	4-5	5-6	5-6
	Scarlet SLK 200%	R135	2.0	5	3-4	4	4	5	5
	Rubine 2BLS 200%	R145	1.0	6-7	5	4-5	5	4-5	4-5
	Red E-BL 100%	R146	2.0	6-7	4	3-4	5	5-6	5-6
	Red BS 200%	R152	1.0	5-6	3-4	4-5	4-5	4-5	4-5
	Scarlet G-S 200%	R153	1.0	3	4	4-5	4-5	4-5	4-5
	Scarlet H4G-FS 200%	R153:1	1.2	4-5	4	4	4	4-5	4-5











Disperse Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(Xenon) 1:1 standard depth	Washing (95°C)	Sublimation (180°C×30sec)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Scarlet S-3GFL 100%	R54	1.0	5-6	3-4	4-5	4	4-5	4
	Red FB 200%	R60	1.0	5-6	4-5	2-3	4-5	4-5	4-5
	Rubine SE-GFL 200%	R73	1.0	7	5	5	5	5	5
	Scarlet S-BWFL 200%	R74	1.0	5-6	4-5	5	-	3-4	4
	Red BBL 200%	R82	2.0	6-7	4-5	5	5	-	-
	Red R3L 200%	R86	2.0	6-7	4-5	4-5	4-5	3-4	4-5
	Brill pink REL 200%	R91	2.0	6-7	3-4	4	4-5	4	4-5
	Red FBL 200%	R92	2.0	5-6	4-5	4-5	4-5	5	4-5
	Red SE-BN 200%	R127	2.0	6	4-5	3	4-5	5-6	5-6
	Scarlet SLK 200%	R135	2.0	5	3-4	4	4	5	5
	Rubine 2BLS 200%	R145	1.0	6-7	5	4-5	5	4-5	4-5
	Red E-BL 100%	R146	2.0	6-7	4	3-4	5	5-6	5-6
	Red BS 200%	R152	1.0	5-6	3-4	4-5	4-5	4-5	4-5
	Scarlet G-S 200%	R153	1.0	3	4	4-5	4-5	4-5	4-5
	Scarlet H4G-FS 200%	R153:1	1.2	4-5	4	4	4	4-5	4-5










Disperse Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(xenou) 1:1 standard depth	Washing (95°C)	Sublimation (180°C×30sec)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Red FRL 200%	R177	1.0	5-6	5	5	4-5	5	5
	Rubine S-2BL 200%	R179	1.0	6-7	3-4	5	4-5	4-5	4-5
	Brill red SE/KB 100%	R221	1.0	6-7	5	5	5	5	5
	Red C-4G 200%	R278	2.0	5	5	4-5	5	4-5	4-5
	Red P-G 200%	R311	1.0	6	5	5	4-5	4-5	4-5
	Red F3BS 150%	R343	1.0	4-5	4-5	4-5	4	3	3
	Red CBN 200%	R356	1.0	5-6	5	5	5	5	5
	Violet 2R 100%	V1	1.0	3-4	4-5	4-5	4-5	-	-
	Violet FBL 100%	V26	2.0	6-7	4-5	3-4	-	-	-
	Violet RL 200%	V28	2.0	6-7	5	3-4	5	5	5
	Violet FBL 150%	V31	1.0	6-7	5	4-5	5	5	5
	Violet CB 200%	V33	1.0	6-7	5	4	5	4-5	4-5
	Violet DYF-57 200%	V57	2.0	5	3-4	4	4	5-6	5-6
	Violet 3RL 200%	V63	1.0	5-6	4-5	4-5	5	4-5	4-5
	Violet P-4R 200%	V77	1.0	6-7	5	5	5	5	5








Disperse Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(xenou) 1:1 standard depth	Washing (95°C)	Sublimation (180°C×30sec)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Violet 5BS 200%	V93	1.0	4-5	3-4	4	5	4	4-5
	Blue FFR 100%	B3	1.0	5-6	4	4	4-5	-	-
	Blue 2B 300%	B56:2	2.0	5	4-5	4-5	4-5	4-5	4-5
	Turq. Blue HGL 200%	B60	2.0	7-8	5	5	5	5	5
	Blue 6R 200%	B72	1.0	7-8	4-5	4-5	4-5	4-5	4-5
	Blue S-BGL 200%	B73	1.0	6	4-5	4-5	4-5	4-5	4-5
	Blue SE-BLF 200%	B77	1.0	5	5	5	5	5	5
	Navy blue HGL 200%	B79	2.0	5-6	5	5	5	5	5
	turq.blue S-BLN 200%	B87	2.0	7	4-5	4-5	4-5	4-5	4-5
	Blue GFD 200%	B102	2.0	4-5	4-5	4-5	4-5	4-5	4-5
	Discharge blue R 300%	B106	2.0	4	4	4	4	4-5	4-5
	Turq.blue B-FS 200%	B143	1.0	7	4-5	4-5	5	4-5	4-5
	Polyester blue 3RT 200%	B148	2.0	6	4-5	4-5	4-5	4-5	4-5
	Blue D5G 200%	B149	2.0	5-6	4	4	5	3	3
	Blue BBLS 200%	B165	1.0	6-7	4-5	5	5	5	5





Disperse Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(Xenou) 1:1 standard depth	Washing (95°C)	Sublimation (180°C×30sec)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Blue SE-2R 100%	B183	1.0	6	5	5	5	5	5
	Blue SE-2R 100%	B183:1	1.0	6	5	5	5	5	5
	Blue 3RF 100%	B257	2.0	6-7	5	5	5	4-5	5
	Blue SE-GBL 300%	B291	1.0	6-7	5	5	5	4-5	5
	Navy blue 5GR 300%	B291:1	1.0	6-7	4-5	4-5	4-5	4-5	4-5
	Blue H-3G 200%	B301	2.0	6	5	5	5	5	5
	Blue S-R 200%	B354	2.0	5-6	5	5	4-5	4-5	4-5
	Blue CRS 200%	B366	1.0	5-6	4-5	5	4-5	4-5	4-5
	Blue F2GS 200%	B367	2.0	7	5	5	5	5	5
	Blue EX-SF/ECO 300%	mix	1.0	4-5	3-4	4	4-5	4-5	4-5
	Green C-6B 100%	G9	2.0	4-5	4-5	5	4-5	4-5	4-5
	Brown S-RL 100%	Br1	2.0	5	5	5	5	5	5
	Brown HR 200%	Br4	2.0	5-6	4-5	4-5	4-5	4-5	4-5
	Brown 3G 200%	Br19	2.0	6	5	4-5	4	4-5	4-5
	Brown 3GS 200%	Br19:1	2.0	6	4-5	4-5	4	4	4

Disperse Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(Xenou) 1:1 standard depth	Washing (95°C)	Sublimation (180°C×30sec)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Black S-2BL 200%	mix	3.0	5-6	5	5	5	5	5
	Black GI 200%	mix	3.0	4-5	3-4	4	4-5	4	4-5
	Black EX-SF/ECO 300%	mix	3.0	4-5	3-4	4	4	4	4
	Gray S-BL 100%	mix	3.0	4	4-5	4	4	4-5	4-5
	Gray N 100%	mix	3.0	5-6	3-4	3-4	3-4	3-4	3-4
	Brown S-3RL 100%	mix	2.0	6	4-5	4-5	4-5	4-5	4-5
	Brown S-2BL 100%	mix	2.5	6-7	5	5	5	5	5












High Fastness Disperse Dyes	Product Name	Dyeing Depth o.w.f. %	Classification	High Temp.	Fastness Properties						PH Range
					Thermosol	Printing	Yarn Dyeing	Light(xenou) 1:1 standard depth	Sublimation (180°C×30sec)	Washing (95°C)	
High Fastness Disperse Dyes											
	Yellow HF-6G 200%	1.3	S	⊙	⊙	⊙	⊙	7	4-5	5	4-7
	Orange HF-2G 200%	1.0	S	⊙	○	○	○	6	5	4-5	4-9
	Red HF-2G 200%	1.0	S	⊙	⊙	⊙	⊙	5-6	5	4	3-9
	Brill. Red HF-B 200%	0.5	S	⊙	△	○	○	5-6	4	4	4-9
	Red HF-KB 200%	2.2	S	⊙	○	○	△	5-6	5	4-5	3-9
	Rubine HF-4BN 200%	1.5	S	⊙	○	⊙	○	6	5	4-5	3-9
	Blue HF-G 200%	2.0	S	⊙	○	⊙	⊙	6	3-4	5	4-7
	Blue HF-2G 200%	0.5	S	⊙	○	○	×	6	4-5	4-5	4-7
	Navy HF-R 200%	3.0	S	⊙	○	○	○	6	4	4	4-7
	Black HF-R 200%	5.0	S	⊙	○	○	○	6	3-4	4	4-7

High Fastness Disperse Dyes	Product Name	Dyeing Depth o.w.f. %	Classification	Suitable Range				Washfastness				PH Range
				Treylene/ Cotton	Micro-fiber	Yarn Dyeing	Direct Printing	Polyester	Cotton	Wool	Nylon 66	
High Washfastness Disperse Dyes												
	Yellow DXF 200%	1.5	S	⊙	⊙	⊙	⊙	5	5	5	5	3-7
	Yellow brown DXF 100%	1.0	S	⊙	⊙	⊙	⊙	5	5	4-5	4-5	3-6.5
	Scarlet DXF 100%	2.0	S	⊙	⊙	⊙	⊙	5	5	5	5	3-7
	Red DXF 100%	2.0	S	⊙	⊙	⊙	⊙	5	5	5	5	3-7.5
	Rubine DXF 100%	1.5	S	⊙	⊙	⊙	⊙	5	5	4-5	4-5	3-6
	Turq DXF 100%	2.0	S	⊙	⊙	⊙	⊙	5	5	5	5	3-8
	Blue DXF 100%	3.0	S	⊙	⊙	⊙	⊙	5	5	4-5	4-5	4-5.5
	Navy DXF 100%	4.0	S	⊙	⊙	⊙	⊙	5	5	4-5	4-5	4-5.5
	Black DXF 100%	6.0	S	⊙	⊙	⊙	⊙	5	5	4-5	4-5	4-5.5









Disperse Dyes for Heat Transfer Printing	Product Name	Dyeing Depth O.W.F.%	Fastness Properties				
			Light(xenou) 1:1 standard depth	Washing (40°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
Disperse Dyes for Heat Transfer Printing							
	Disperse Red 4	2.0	6	3-4	5	4	4
	Disperse Red 11	2.0	5	4-5	5	4-5	4-5
	Disperse Blue 14	2.0	5	3-4	4-5	5	3
	Disperse Blue 72	2.0	6-7	5	5	4	4
	Disperse Yellow 54	2.0	6	4-5	5	-	-
	Disperse Violet 1	2.0	6-7	3-4	5	4-5	4-5
	Disperse Black Mix	2.0	6-7	4-5	5	4-5	4

Disperse Dyes	Product Name	Color Index Number	Dyeing Depth O.W.F.%	Fastness Properties					
				Light(xenou) 1:1 standard depth	Washing (40°C)	Hot Pressing 180°C	Perspiration	Rubbing (Dry)	Rubbing (Wet)
Fluorescent Disperse Dyes									
	Fluo. Yellow H-8GFF 100%	Y82	2.0	4	4-5	5	5	4-5	4-5
	Fluo. Yellow 10GN 400%	Y184:1	2.0	5-6	5	5	5	4-5	4-5
	Fluo. Pink 2GL 200%	R362	2.0	4	4	4	-	3	3-4
	Fluo. Red G 100%	R277	2.0	4	3-4	4	-	3	3

Acid Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(xenon) 1:1 standard depth	Washing (40°C)	Hot Pressing 180°C	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	RED 2G 100%	R 1	1.0	4	4-5	4-5	3	4-5	4-5
	Red B 100%	R 14	0.8	4-5	4-5	3	4	4-5	4
	Red BL 200%	R 37	1.0	5-6	3	2	4	5	3
	Rhodamine B 400%	R 52	0.6	3	3-4	4	4	5	3
	Rhodamine B 400%	R 57	1.0	6	4-5	3	4-5	4-5	3-4
	Brill. Scarlet GR 100%	R 73	1.0	6	3	4-5	3	3-4	3-4
	Scarlet F-3GL 130%	R 111	1.0	5	4-5	4-5	4-5	4	3-4
	Red RS 200%	R 114	1.0	3-4	4-5	4-5	4	4-5	3-4
	Red GW 150%	R 118	1.2	5-6	4-5	3	4-5	4-5	4
	Red 3BN 150%	R 131	1.0	4-5	3	3-4	4-5	4-5	4-5
	Red BW 100%	R 138	1.0	3-4	4-5	5	5	4-5	3
	Red F2R 150%	R 151	1.0	2	4	4-5	4-5	4-5	4-5
	Brill. Red B 125%	R 249	1.0	4-5	4-5	4-5	4-5	4-5	4-5
	Fast Red BL 200%	R 260	1.0	4-5	4	4-5	4-5	4-5	4-5








Acid Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(xenon) 1:1 standard depth	Washing (40°C)	Hot Pressing 180°C	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Red E-BM 200%	R 266	1.0	6	5	5	5	4-5	4-5
	Rubine 5BL 200%	R 299	0.5	3	4-5	4-5	4	4-5	4
	Red N-2RBL 200%	R 336	1.0	5-6	4-5	2-3	4-5	5	4-5
	Red F-2G 200%	R 337	1.2	5	4	4-5	5	4	3-4
	Fast Red 2B 200%	R 361	1.0	6	4-5	4-5	4-5	4-5	4-5
	Bordeaux S-B 100%	R 405	1.0	6-7	4	4	4	4-5	4-5
	Red S-3G 200%	R 407	1.0	5	4	4-5	4-5	4-5	4-5
		R 414	1.0	-	-	-	-	-	-
	Red A-3G 200%	R 447	1.0	-	-	-	-	-	-
	Yellow 2G 120%	Y 17	1.2	6	4-5	4-5	3	5	5
	Tartrazine NS 200%	Y 23	1.0	4	4-5	4-5	4-5	4-5	4-5

Acid Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(xenon) 1:1 standard depth	Washing (40°C)	Hot Pressing 180 C	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Tartrazine NS 200%	Y 36	1.0	5	4-5	4-5	4-5	4-5	3-6
	Milling yellow N-SH 150%	Y 42	0.8	4-5	4	4-5	4-5	4-5	4-5
	Yellow NFG 200%	Y 49	1.0	6	4-5	4-5	4-5	5	4-5
	Yellow 2GL 250%	Y 59	1.0	7	4-5	4-5	5	4	4
	Yellow 3GP 140%	Y 61	1.0	5-6	4-5	4-5	4-5	5	4-5
	Yellow 4G 200%	Y 79	1.0	6	4	4	4	4	4-5
	Yellow GN 150%	Y 117	1.0	4-5	4-5	4-5	4-5	4-5	4-5
	Yellow LNW 200%	Y 151	1.0	4	4-5	4-5	4-5	4-5	4-5
	Yellow 8GF 100%	Y 184	1.0	4-5	4-5	4-5	4-5	5	5
	Yellow A4R 200%	Y 199	1.0	6-7	4-5	4-5	4-5	4	4
	Yellow 3RL 250%	Y 219	0.8	6	3-4	5	4	4-5	4-5
	Yellow S-2G 200%	Y 220	1.0	6-7	4	4	4	4-5	4-5
	Yellow 3R 110%	O 3	1.0	5-6	4-5	4-5	4	4	2-3
	Orange II 100%	O 7	1.0	5-6	3-4	4	4-5	4-5	3-4

Acid Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth O.W.F.%	Light(xenon) 1:1 standard depth	Washing (40°C)	Hot Pressing 180 C	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Orange 2G 100%	O 10	1.0	4-5	4-5	4-5	2	3-4	3-4
	Orange GS 150%	O 33	1.0	4-5	4-5	4	4-5	4	3-4
	Yellow RXL 200%	O 67	1.0	6	4-5	4-5	4-5	4-5	4-5
	Orange GSN 150%	O 95	1.0	5	4-5	5	4-5	4	4
	Orange AGT 200%	O 116	1.0	4	4-5	4-5	4-5	4-5	4-5
	Sky blue A 100%	B 7	1.0	1	4	4-5	4-5	4-5	3
	Blue AS 160%	B 25	1.0	5-6	3	4	3-4	4	3
	Blue A2G 160%	B 40	1.0	4	4-5	4-5	4-5	4-5	4-5
	Blue AM 200%	B 41	1.0	5-6	3	4-5	3-4	5	5
	Blue E-BL 200%	B 45	1.0	5-6	2	4-5	2-3	4-5	4-5
	Brill. Sky blue R 200%	B 62	1.0	4-5	4-5	4-5	4	4-5	4
	Brill. Blue RAW 150%	B 80	1.0	5-6	4-5	4-5	4-5	4-5	4-5
	Brill. Blue 6B 350%	B 83	1.0	3	4-5	4	4-5	4-5	3
	Ink Blue G 100%	B 93	1.0	-	-	-	-	-	-

Acid Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth 0.1% O.W.F.%	Light(xenon) 1:1 standard depth	Washing (40°C)	Hot Pressing 180 C	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Milling Blue GW 180%	B 127:1	1.0	5	4-5	4	4-5	4-5	4
	Blue P-R 200%	B 129	1.0	5-6	4-5	4-5	4-5	4-5	4-5
	Milling Blue BW 200%	B 138	1.0	5	4-5	4-5	4-5	4-5	4-5
	Blue CD-FG 250%	B 145	1.0	5-6	2-3	5	3-4	4-5	4-5
	Blue HRL 200%	B 182	1.0	5-6	3-4	4-5	3-4	4-5	4-5
	Blue 2R 200%	B 225	1.0	6	4-5	4-5	5	4-5	4-5
	Brill. Blue R 200%	B 260	1.0	6	3-4	4-5	4-5	4-5	4-5
	Blue GLF 200%	B 281	1.0	5-6	4	4-5	4-5	4-5	4-5
	Blue BRLL 200%	B 324	1.2	4	4-5	4-5	4-5	4-5	4
	Blue MF-8LN 200%	B 350	1.5	4-5	5	4-5	5	4-5	4
	Green GLW 120%	G 27	1.0	6	3-4	4	4-5	4-5	4-5
	Violet 5BN 180%	V 17	1.0	1	3-4	4	4-5	4-5	4-5
	Violet FBL 180%	V 48	1.2	5-6	4-5	4-5	4-5	4-5	4-5
	Brill. Violet 10B 140%	V 54	1.0	4-5	4-5	4-5	4-5	4-5	4-5




Acid Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth 0.1% O.W.F.%	Light(xenon) 1:1 standard depth	Washing (40°C)	Hot Pressing 180 C	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Brown RD 100%	Br 14	1.0	2	3-4	4-5	2-3	4	4
	Brown 2R 100%	Br 75	1.0	4-5	3-4	4	4-5	4-5	4-5
	Brown AFA 100%	Br 161	1.0	-	-	-	-	-	-
	Brown 163 100%	Br 163	1.0	4-5	3-4	4	4-5	4-5	3-4
	Brown NT 100%	Br 165	1.0	4	3-4	4	4-5	4-5	3-4
	Brown SR 100%	Br 348	1.0	-	4-5	3-4	4-5	4-5	4
	Brown SG 100%	Br 349	1.0	-	-	-	-	-	-
	Black 10B 120%	Bk 1	3.0	5-6	4-5	4-5	4	4	2-3
	Nigrosine 100%	Bk 2	4.0	5	4	4-5	4	3-4	2-3
	Black BR 150%	Bk 24	3.0	6-7	4-5	4	4-5	4-5	3-4
	Black WA 150%	Bk 52	4.0	7	4-5	4-5	4-5	4	4
	Grey BL 150%	Bk 60	2.0	6	4-5	4-5	4-5	4	4
	Black RB 100%	Bk 63	3.0	7	4	4-5	5	5	5
	Black BGL 200%	Bk 107	3.0	5	4-5	4-5	4-5	4	4
















Acid Dyes	Product Name	Color Index Number	Fastness Properties						
			Dyeing Depth 0.1% O.W.F.%	Light(xenon) 1:1 standard depth	Washing (40°C)	Hot Pressing 180 C	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Black BL 100%	Bk 168	3.0	7-8	4-5	4-5	4-5	4	4
	Black LD 140%	Bk 172	3.0	4-5	4	4-5	4-5	4-5	4
	Black MSRL 140%	Bk 194	3.0	4-5	4-5	4-5	4-5	4-5	4-5
	Grey S-B 100%	Bk 207	3.0	6-7	4	4	4	4	4-5
	Black NT 180%	Bk 210	4.0	3	2-3	4	4-5	4-5	4-5
	Black NB 175%	Bk 234	2.5	-	-	-	-	-	-
	Black ATT 130%	mix	4.0	6-7	4-5	4-5	4	4-5	3
















lanaset series

lanaset Yellow 2R		lanaset Yellow 4GN		lanaset Orange RN	
					
lanaset Red 2B		lanaset Red G		lanaset Bordeaux B	
					
lanaset Blue 2R		lanaset Blue 2RA		lanaset Grey G	
					
lanaset Navy R		lanaset Brown G-01		lanaset Brown B	
					
lanaset Green B		lanaset Black B		lanaset Yellow PA 125%	
					
lanaset Yellow PA-2G 200%		lanaset Red PA 200%		lanaset Bordeaux PA	
					
lanaset Blue PA		lanaset Navy PA		lanaset Blue PA-2R 115%	
					
lanaset Grey PA-N					
					








Mordant Dyes	Product Name	Color Index Number	Dyeing Depth 0.1% w.f.%	Fastness Properties			
				Light(xenon) 1:1 standard depth	Washing (40°C)	Rubbing	
						Dry	Wet
	Dark Yellow GG 100%	Yellow 10	1.0	6-7	4-5	4-5	4-5
	Red S-80 100%	Red 3	1.0	6-7	4	4	4-5
	Red 3BM 100%	Red 15	1.0	7	4-5	4-5	4
	Pure Blue B 100%	Blue 1	1.0	4-5	5	4-5	4
	Blue 2R 100%	Blue 3	1.0	5-6	5	4-5	4
	Blue RRL 100%	Blue 9	1.0	7	5	4	4-5
	Blue B 100%	Blue 13	1.0	5-6	4	4-5	4-5
	Navy RRN 100%	mix	1.0	4-5	3-4	3	4
	Brown KE 100%	Brown 15	1.0	6	4-5	5	4
	Brown RH 100%	Brown 33	1.0	6	4-5	4-5	4
	Black A 100%	Black 1	1.0	5-6	5	4	3-4
	Black PBB 100%	Black 7	3.0	6	5	3-4	3-4
	Black PV 100%	Black 9	1.0	6-7	4-5	4	3-4
	Black T 100%	Black 11	1.0	7	5	3-4	3

Mordant Dyes	Product Name	Color Index Number	Dyeing Depth 0.1% w.f.%	Fastness Properties			
				Light(xenon) 1:1 standard depth	Washing (40°C)	Rubbing	
						Dry	Wet
	Grey BS 100%	Black 13	1.0	5-6	4-5	5	4
	Black R 100%	Black 17	1.0	6-7	5	4	3-4
	Violet R 100%	Violet 1	1.0	5-6	4-5	4-5	4


VAT Dyes	Product Name	Color Index Number	Fastness Properties								Dyeing method
			Dyeing Depth O.W.f %	Light(xenon) standard depth 1:1	Washing (95°C)		Perspiration		Rubbing		
					CH	CO	CH	CO	Dry	Wet	
	Yellow G 100%	Y1	4.0	6-7	5	5	5	5	5	4-5	1N
	Yellow GCN 100%	Y2	4.0	4	4-5	4-5	4-5	4-5	4-5	4	1N
	Yellow F3GC 100%	Y33	4.0	6-7	5	4-5	5	4-5	4-5	4	1W
	Yellow 3GL 100%	Y48	4.0	6-7	5	5	5	5	5	5	1N
	Golden yellow RK 100%	O1	4.0	6-7	4-5	4	4-5	4-5	4	3	1W
	Golden Orange 2RT 100%	O2	4.0	5-6	4-5	5	5	5	4-5	4	1W
	Brill. Orange 3RK 100%	O3	4.0	7	4-5	5	5	5	3-4	3	SRI
	Brill. Orange GR 100%	O7	4.0	6	5	5	4-5	5	4-5	3-4	1N
	Golden orange G 100%	O9	4.0	5-6	4-5	4-5	4	4-5	4-5	4	1N
	Yellow 3RT 100%	O11	4.0	7	5	5	4	4	4-5	4	1N
	Pink R 100%	R1	4.0	6	4-5	5	4-5	4-5	4-5	4	SRII
	Red FFB 100%	R10	4.0	6-7	4	4	4-5	5	2-3	4	1W
	Rubine 6B 100%	R13	4.0	7-8	4	4	4	3-4	3-4	2-3	1N
	Scarlet GG 100%	R14	4.0	7	4-5	5	4	4-5	4-5	3-4	1N
	Bordeaux RR 100%	R15	4.0	6-7	4-5	4-5	4	5	4-5	3-4	1N







VAT Dyes	Product Name	Color Index Number	Fastness Properties								Dyeing method
			Dyeing Depth O.W.f %	Light(xenon) standard depth 1:1	Washing (95°C)		Perspiration		Rubbing		
					CH	CO	CH	CO	Dry	Wet	
	Scarlet R 100%	R29	4.0	6	4-5	5	4-5	5	3-4	2-3	1W
	Red F3B 100%	R31	4.0	6-7	5	5	4	4-5	4-5	3	1W
	Red BB 100%	R32	4.0	5	3-4	4-5	4-5	4	4	4	1W
	Red EFR 100%	R54	4.0	6	2-3	3-4	3-4	4-5	4-5	3	1N
	Violet 2R 100%	V1	4.0	6	4-5	4-5	4-5	5	4-5	4	1N
	Violet 3B 100%	V9	4.0	5-6	4-5	5	4-5	5	4-5	4	1N
	Indigo blue 94%	B1	4.0	3-4	2	4	2-3	2-3	1-2	1	SRI
	Blue RSN 100%	B4	4.0	7-8	4-5	4-5	4-5	4-5	4	3-4	1N
	Blue BC 100%	B6	4.0	7-8	4-5	5	4-5	5	4-5	4-5	1N
	Blue GCDN 100%	B14	4.0	7-8	5	5	4-5	5	4-5	4	1N
	Navy RAN 100%	B18	4.0	7	3-4	4-5	4	4	4	3	1N
	Blue BO 100%	B20	4.0	7-8	3-4	4-5	4-5	4-5	4	3	1N
	Sulphur vat blue GNX 100%	B42	4.0	5	4-5	3-4	4-5	4-5	3-4	2-3	1N
	Sulphur vat blue RNX 100%	B43	4.0	6-7	4	4-5	4-5	4-5	3	1-2	1N
	Navy Blue R 100%	mix	3.0	7	4-5	4-5	4-5	4-5	4-5	4	1N

VAT Dyes	Product Name	Color Index Number	Fastness Properties								
			Dyeing Depth 0.1% O.W.f %	Light(xenon) 1:1 standard depth	Washing (95°C)		Perspiration		Rubbing		Dyeing method
					CH	CO	CH	CO	Dry	Wet	
	Dark Blue VB 100%	mix	3.5	7	4-5	4-5	4-5	4-5	4-5	4	1N
	Green FFB 100%	G1	4.0	7-8	4-5	5	5	5	4-5	4	1N
	Olive Green B 100%	G3	4.0	7-8	4-5	4-5	4-5	4-5	4-5	3	1N
	Green G 100%	G7	4.0	6-7	4-5	5	-	-	-	-	1W
	Khaki 2G 100%	G8	4.0	7-8	5	5	4	5	4	2	1N
	Black BB 100%	G9	4.0	8	4-5	4-5	5	5	4-5	3	1N
	Olive MW 100%	G13	4.0	7-8	4-5	4-5	5	5	4-5	4	1N
	Grass green GN 100%	mix	3.0	7	5	5	4	4	4-5	4	1N
	Brown BR 100%	Br1	4.0	7	4-5	4-5	4-5	5	4-5	4	1W
	Brown R 100%	Br3	4.0	7-8	5	5	4	4-5	4-5	4-5	1W
	Brown LG 100%	Br23	4.0	5-6	4-5	2	3-4	4	3-4	2	1N
	Brown 2R 100%	Br57	4.0	7-8	5	4	5	4	4	3-4	1N
	Brown G 100%	Br68	4.0	7-8	4-5	5	4-5	5	4-5	4	1W
	Brown GG 100%	Br72	4.0	7-8	5	5	5	5	4-5	4-5	1W
	Grey M 100%	Bk8	4.0	7	3-4	4-5	4-5	5	4-5	3	1N

VAT Dyes	Product Name	Color Index Number	Fastness Properties								
			Dyeing Depth 0.1% O.W.f %	Light(xenon) 1:1 standard depth	Washing (95°C)		Perspiration		Rubbing		Dyeing method
					CH	CO	CH	CO	Dry	Wet	
	Black RB 100%	Bk9	8.0	7-8	4-5	4-5	3-4	4-5	3-4	2	SRII
	Grey 3B 100%	Bk16	8.0	6-7	4	4-5	4	4	4	3-4	1N
	Olive T 100%	Bk25	4.0	7-8	4-5	4-5	4-5	4-5	4-5	3-4	1N
	Olive R 100%	Bk27	4.0	7	4-5	5	4-5	4-5	4-5	4	1W
	Grey BG 100%	Bk29	6.0	6-7	4-5	4-5	4	5	4	3	1W
	Black B 100%	Bk38	8.0	6-7	3-4	4	3	4-5	3-4	2-3	1N
	Black CLG 100%	Bk6	8.0	7-8	4	4-5	4-5	4-5	3	1-2	1N








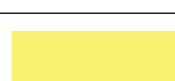

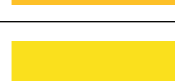



Direct Dyes	Product Name	Color Index Number	Dyeing Depth 0.w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Hot Pressing (200°C)	Rubbing	
							Dry	Wet
	Brill. Blue BL 200%	B 106	1.6	6-7	3-4	3-4	4-5	3
	Blue FFRL 100%	B 108	3.0	6	4	3	4-5	3
	Truq. Blue FBL 200%	B 199	2.2	6-7	3	3	3-4	2-3
	Blue 4BL 200%	B 200	1.1	6	4	4	4-5	3
	Blue BRL 200%	B 201	3.0	6-7	3	4-5	4-5	4
	Blue 4G 100%	B 202	3.0	6	3	4-5	4	3-4
	Blue RCL 100%	B203	2.0	5-6	4	4	5	3
	Blue 3G 100%	B218	2.2	5-6	5	4	4-5	4
	Blue 219 100%	B 219	1.5					
	Blue BWL 143%	B 237	4.0	6	4-5	4	5	3
	Blue D-3GL 100%	B 274	1.0	4	4-5	4-5	4-5	4-5
	Dark Blue D-3GL 100%	B 297	4.0	3	3-4	4	4	2-3
	Brill. Blue GL 160%	B 293	3.0	5	4	4	5	4-5
	Blue BFF 100%	B 311	2.0	5	3	3-4	5	4

Direct Dyes	Product Name	Color Index Number	Dyeing Depth 0.w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Hot Pressing (200°C)	Rubbing	
							Dry	Wet
	Blue 3RL 100%	B67	1.4	5-6	2-3	3	4	3
	Blue RGL 100%	B70	1.7	4-5	4	3	3-4	3
	Blue B2RL 100%	B71	2.1	5-6	3-4	3	4	2-3
	Blue 2GL 200%	B75	5.0	5	3-4	4-5	4	3-4
	Sky blue G 250%	B78	2.0	5	2-3	3	3-4	2-3
	Blue 2RL 200%	B80	1.6	6	2-3	4	4	2-3
	Turq. GL 100%	B86	3.0	6-7	2	5	3-4	2
	Navy Blue BLE 100%	B94	2.0	7	4-5	4	4-5	4
	Grey CGL 100%	Bk112	3.0	6	4	3	4-5	3
	Black ANBN 100%	Bk166	3.0	4	2-3	4-5	4	3
	Black HEF 150%	Bk168	3.0	5	4-5	5	4-5	4
	Black D-BR 100%	Bk173	8.0	3-4	4-5	4-5	3	2
	Black G 100%	Bk19	4.5	4	4-5	3	4	2
	Black GF 150%	Bk22	4.5	5-6	4	2-3	4-5	3

Direct Dyes	Product Name	Color Index Number	Fastness Properties					
			Dyeing Depth 0.w.f.%	Light(xenon) 1:1 standard depth	Washing (40°C)	Hot Pressing (200°C)	Rubbing	
							Dry	Wet
	Black VSF 600	Bk22	4.5	6	4-5	2-3	4-5	3
	Grey LBN 200%	Bk56	1.5	4	3	4	4-5	3
	Grey 4GL 300%	Bk62	2.8	6	4	3-4	4	3-4
	Brown 3G 150%	Br44	1.5	2	2	3-4	4	3
	Brown BRS 150%	Br95	1.5	-	-	-	-	-
	Brown 102 100%	Br102	1.5	-	-	-	-	-
	Brown AGL 100%	Br115	2.0	6	2	3-4	3-4	3
	Brown RL 130%	Br116	2.0	6	2-3		3-4	3-4
	Brown GTL 100%	Br210	2.4	7	4-5	4-5	4	3
	Brown 422 100%	Br422	1.5	-	-	-	-	-
	Brown 494 100%	Br494	1.5	-	-	-	-	-
	Green BLE 155%	G26	1.7	6	4	3	4	3
	Green 5GL 145%	G28	2.6	4-5	2	2	4-5	2-3
	Red 3BLN 100%	mix	2.0	5	3	3	4-5	2

Direct Dyes	Product Name	Color Index Number	Fastness Properties					
			Dyeing Depth 0.w.f.%	Light(xenon) 1:1 standard depth	Washing (40°C)	Hot Pressing (200°C)	Rubbing	
							Dry	Wet
	Brown S-BR 100%	mix	1.8	3-4	3-4		3-4	2-3
	Orange 6R 150%	O102	3.0	3	4	4-5	4-5	4
	Orange TGL 182%	O34	1.0	5-6	3	3	3-4	3
	Orange 2GL 200%	O39	1.0	6-7	4	3	4-5	3-4
	Red F2G 100%	R224	2.2	3-4	4-5	4-5	3-4	3
	Rose FR 100%	R227	2.2	3	4-5	4-5	4	3
	Red 2G 150%	R239	2.2	5	4-5	4	4	3-4
	Red BWS 100%	R243	2.0	5	4-5	4	3-4	3
	Red 8BN 100%	R254	3.0	4	1-2	4-5	4-5	2-3
	Scarlet 4GE 100%	R277	2.2	4	4-5	3-4	4	3
	Pink BK 100%	R75	1.9	5	3-4	3-4	4-5	3
	Red 4BL 170%	R79	1.2	6	3	3-4	3-4	3
	Red F3B 150%	R80	2.3	5	3	3-4	3	3
	Red 4B 150%	R81	1.7	4	4	2-3	4-5	3
















Direct Dyes	Product Name	Color Index Number	Dyeing Depth 0.w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Hot Pressing (200°C)	Rubbing	
							Dry	Wet
	Red BL 100%	R83	3.0	6	4	4-5	4-5	4
	Rubine BL 100%	R83:1	1.9	6-7	3-4	3	3-4	2-3
	Scarlet BNL 200%	R89	2.2	5-6	2	3	5	2
	Pink B 100%	R9	4.0	4	4	4	4-5	3-4
	Blend violet D-BL 100%	V35	1.5	2	2	-	-	-
	Violet BB 100%	V51	2.0	4	1-2	-	2	1-2
	Violet 5BL 100%	V66	2.2	6-7	2	4	4-5	3
	Violet 4BL 250%	V66	0.9	6-7	2	4	4-5	3
	Violet MB 150%	V9	4.0	4-5	3-4	4-5	4	3-4
	Yellow L3R 154%	Y106	3.0	5	4	4-5	5	3-4
	Yellow G 330%	Y107	0.9	7	2-3	4-5	4	3
	Yellow GR 330%	Y120	0.9	4	3-4	4	4-5	4
	Yellow 3GF 330%	Y132	0.9	4-5	3-4	4	4	3
	Yellow PG 100%	Y142	1.0	4-5	3-4	4	4	2

Direct Dyes	Product Name	Color Index Number	Dyeing Depth 0.w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Hot Pressing (200°C)	Rubbing	
							Dry	Wet
	Yellow GL 200%	Y147	3.0	6	3-4	4-5	5	3-4
	Yellow 6GF 100%	Y157	1.1	5	2	4	4-5	2-3
	Yellow D-3RNL 100%	Y161	1.0	4	4-5	4-5	4-5	4
	Yellow AGL 100%	Y169	0.9	5	3-4	4	4	3-4
	Yellow GLE 100%	Y177	1.0	5	3-4	4	4	3-4
	Yellow GR 100%	Y24	1.5	4	4-5	4-5	4	2-3
	Brill. Yellow 2G 100%	Y26	1.5	4	1	4	4-5	4
	Yellow 5GL 100%	Y27	3.0	5	1	5	5	4
	Yellow FF 200%	Y28	1.5	6	3	4	4	3-4
	Yellow GC 182%	Y44	1.0	4-5	3	3-4	4-5	3
	Yellow RS 100%	Y50	1.3	5	2-3	3-4	4	3
	Yellow L-5R 100%	Y83	1.1	6	4-5	4	3	2-3
	Yellow D-RL 100%	Y86	1.1	6	2-3	4	4-5	3

Direct Dyes	Product Name	Color Index Number	Dyeing Depth 0.w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Hot Pressing (200°C)	Rubbing	
							Dry	Wet
	Blue BH 180%	B2	1.5	3-4	4	4	2-3	2
	Sky blue 5B 100%	B15	3.6	1-2	2-3	3	4-5	3
	Copper blue 2R 100%	B151	0.8	5	2-3	3	4-5	3
	Blue 2B 100%	B6	2.1	2-3	2-3	3	4-5	2-3
	Grey D 100%	Bk17	2.0	2	3	3	4	3
	Black EX 100%	Bk38	4.0	4	4	4	4	1-2
	Black OB 200%	Bk80	4.5	3-4	3	4	4	3
	Brown N-D3G	Br1	1.5	2	4-5	3-4	4	2
	Dark brown MM 100%	Br2	1.8	3-4	3-4	2-3	4-5	2
	Brown 3G 150%	Br44	1.8	2	2	4	4	3
	Green BE 100%	G1	1.5	3	3	4	4-5	2-3
	Yellow brown MD 100%	mix	2.4	2	2	4	4	2-3
	Red brown RN 100%	mix	1.5	2-3	3-4	3	4-5	2-3
	Dark brown ME 100%	mix	1.5	3-4	3-4	2-3	4-5	2

Direct Dyes	Product Name	Color Index Number	Dyeing Depth 0.w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Hot Pressing (200°C)	Rubbing	
							Dry	Wet
	Orange S 150%	O26	3.0	3	4	4-5	4-5	3-4
	Red 4B 200%	R2	1.5					
	Red 6B 200%	R16	3.0	2	1-2	4-5	4	3
	Scarlet 4BS 150%	R23	0.7	2-3	3	3	4-5	2
	Pink 12B 100%	R31	0.6	2	3	2	4	2
	Black BX	replace of BK 38	5.0	5-6	4-5	4-5	4-5	3
	Violet N 100%	V1	1.5	3-4	3	4	3-4	2-3
	Violet BK 150%	V9	1.3	2	1-2	1	4-5	3
	Yellow NBP 100%	Y4	1.5	2-3	2	2-3	4	2-3
	Yellow R 150%	Y11	1.5	3-4	2-3	4	4	2-3
	Chrysophenine G	Y12	3.0	4	2-3	4-4	4-5	3
	Yellow 5G 100%	Y8	1.5	2	1-2	3-4	3-4	2-3
	Yellow G 100%	Y6	1.0	1-2	2-3	4	4-5	3
	Flavin 7GFF 500%	Y96	1.5	1-2	2-3	3-4	4-5	4















Sulfur Dyes	Product Name	Color Index Number	Dyeing Depth o.w.f. %	Dye:50% Sodium Sulphide	Dyeing temp. °C	Oxidizing method	Fastness Properties				
							Light(Xenou) 1:1 standard depth	Washing (95°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Light yellow GC 250%	Y2	5%	1:2.5	90-95	C	3	2	4	3-4	3
	Light yellow GR 250%	Y2	5%	1:2.5	90-95	C	3	2	4	3-4	3
	Yellow brown 5G 150%	Br10	5%	1:1.5	90-95	A	3	2-3	4	3-4	2-3
	Yellow brown 6G 150%	O1	5%	1:1.5	90-95	A	3	3-4	4	4	3
	Brill. Yellow G 100%	Y9	5%	1:1.5	90-95	A.C	4	3-4	4	4-5	3-4
	Red brown B3R 100%	R6	2%	1:1.5	90-95	A.C	4	3-4	4	4-5	3-4
	Bordeaux 3B100%	R6	2%	1:4	90-95	C	3	2-3	4	3	2-3
	Red LGF	R14	5%	1:1	90-95	A	4	4-5	4-5	4-5	3
	Dark brown GD 100%	Br4	4%	1:1.5	90-95	ABC	4	4	4-5	4	3
	Dark brown FW 100%	mix	4%	1:1.5	90-95	C	4	4	4-5	4	2
	Dark brown GN 200%	mix	4%	1:1.5	90-95	C	3	3-4	4-5	4	3
	Light Green 300%	G14	5%	1:3	80-95	C	6-7	4-5	4-5	4-5	2-3
	Brill. Green GB 100%	G3	5%	1:0.75	50-85	A.B	5	3-4	4	4-5	3
	Olive green 7731 200%	mix	3.0	1:2	90-95	A	4-5	3-4	3	4	2-3
	Olive green 715 200%	mix	3.0	1:2	90-95	A	4	4	3	4	2-3












Sulfur Dyes	Product Name	Color Index Number	Dyeing Depth o.w.f. %	Dye:50% Sodium Sulphide	Dyeing temp. °C	Oxidizing method	Fastness Properties				
							Light(Xenou) 1:1 standard depth	Washing (95°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Olive green 515 200%	mix	3.0	1:2	90-95	A	4	4	3	4	2-3
	Dark olive BBK 200%	mix	3.0	1:2	90-95	A	4	4	3	4	2-3
	Olive KKN 200%	mix	3.0	1:2	90-95	A	4	4	3	3-4	2-3
	Blue BRN 150%	B7	4.0	1:2	70-75	C	5-6	3-4	3	3-4	2
	Blue 2RN 150%	B7	4.0	1:2	90-95	A	4	4	3	3-4	2
	Blue RN 150%	B7	4.0	1:2	90-95	A	4	4	3	3-4	2
	Blue BN 150%	B7	4.0	1:2	90-95	A	4	4	3	3-4	2
	Blue 2BN 150%	B7	4.0	1:2	90-95	A	4	4	3	3-4	2
	Sky blue CV 100%	B15	4.0	1:1.5	90-95	B	6-7	3-4	3	4	2
	Sky blue CV 120%	B15	4.0	1:1.5	90-95	B	6-7	3-4	3	4	2
	Dark blue 3R 100%	B5	4.0	1:1.5	80-85	BC	5	4	3-4	4	2
	Dark blue 3R 130%	B5	4.0	1:1.5	80-85	BC	5	4	3-4	4	2
	Blue BBF 100%	B13	5%	1:2	60-70	B	5-6	4	2-3	4-5	2-3
	Black BR 200%	Bk1	8%	1:3	90-95	A	6	3-4	4	3-4	2
	Black BN 200%	Bk1	8%	1:3	90-95	A	6	3-4	4	3-4	1-2

Reactive Dyes	Product Name	Color Index Number	Dyeing Depth 0.w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	reactive dyes for dyeing							
	Brill.yellow X-6B	Y1	4.0	6-7	4-5	4-5	5	4-5
	Brill yellow X-7G 135%	Y86	4.0	6-7	4-5	4-5	5	3-4
	Golden yellow X-G	mix	4.0	6-7	4-5	4-5	5	3-4
	Brill. Orange X-GN 140%	O1	4.0	5-6	4-5	4-5	5	3
	Brill. Red X-3B 100%	R2	4.0	5	4-5	4-5	5	3-4
	Brill. Red X-8B 100%	R11	4.0	5-6	4-5	4-5	5	3
	Red violet X-2R 120%	V8	4.0	4-5	4-5	4-5	4-5	3
	Brill. Blue X-BR 140%	B4	4.0	6-7	4-5	4-5	4-5	3
	Yellow KN-G	Y201	3.0	4	4-5	4-5	4-5	4
	Orange KN-2G	O72	3.0	4	4-5	4-5	4-5	4
	Orange KN-GR	O82	3.0	4-5	4	4	4-5	4
	Orange KN-5R	O16	4.0	4-5	3-4	4	4-5	4
	Orange KN-GR	mix	4.0	6	4-5	3	4	2




Reactive Dyes	Product Name	Color Index Number	Dyeing Depth 0.w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Red KN-RN	mix	3.0	4	4-5	4	4-5	3-4
	Red KN-5B	R23	3.0	6-7	4-5	4-5	4-5	3-4
	Red KN-RB	R198	3.0	4	4-5	4-5	4	3-4
	Red KN-RBN	mix	3.0	4	4-5	4-5	4	3-4
	Violet KN-4R	V5	4.0	6	4	4-5	3-4	3-4
	Turq. KN-G	B21	4.0	6	3-4	4-5	4-5	3-4
	Brill. Blue KN-R	B19	4.0	7	3	4-5	4-5	3
	Brill. Blue KN-RS	B19	4.0	6-7	4	4	4	2-3
	Black KN-B	Bk5	8.0	5-6	4-5	4-5	4-5	3
	Black KN-BN	mix	6.0	4	4-5	4	4-5	3-4
	Black KN-G2RC	mix	8.0	3-4	3-4	4-5	4-5	3
	Black KN-GWF	mix	6.0	4	4-5	4	4-5	3-4
	Black KN-CR	mix	6.0	4	4-5	4	4-5	3-4
	Brill yellow KM-7G	Y85	4.0	6-7	4-5	4-5	4-5	4

Reactive Dyes	Product Name	Color Index Number	Dyeing Depth 0.1w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Yellow KM-3G	mix	4.0	6	4-5	4-5	4-5	4-5
	Yellow KM-RN	mix	4.0	6	4-5	4-5	4-5	3-4
	Golden yellow KM-G	Y84	4.0	5-6	4-5	4	4	3
	Brill. Orange KM-G	O2	4.0	5	5	4-5	4-5	3
	Brill. Orange KM-7R	mix	4.0	4-5	4-5	4-5	4-5	3
	Brill. Red KM-2B	mix	4.0	5-6	4-5	4-5	4-5	3
	Brill. Red KM-8B	mix	4.0	5	4-5	3-4	4-5	2-3
	Blue KM-GR	mix	4.0	6-7	4-5	4-5	4-5	3-4
	Turq. Blue KM-GB	B72	4.0	6	3	3-4	4-5	3
	Brill. Yellow KE-3G	Y81	4.0	6	4-5	4-5	4-5	3-4
	Yellow KE-4R	Y84	4.0	5-6	4-5	4	4	3
	Orange KE-2G	mix	4.0	5	4-5	3-4	4-5	2-3
	Scarlet KE-3G	mix	4.0	5	5	4-5	4-5	3
	Brill. Red KE-3B	R120	4.0	5	4	4-5	4-5	2

Reactive Dyes	Product Name	Color Index Number	Dyeing Depth 0.1w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Brill. Red KE-7B	R141	4.0	4	3-4	3-4	3-4	2
	Blue KE-6G	mix	4.0	4-5	3	4-5	3	2
	Blue KE-R	B171	4.0	3-4	4	4	4-5	1-2
	Blue KE-GR	mix	4.0	4	3-4	3	4	2
	Brill. Blue KE-2B	B160	4.0	5	4-5	4-5	4-5	2-3
	Blue KE-GN	B198	4.0	5-6	4-5	3	4	2
	Deep Green KE-4BD	G19	4.0	4	4	4	3-4	2
	Brill yellow M-4GL	Y160	3.0	4	4-5	4-5	4-5	4
	Yellow M-5R	mix	3.0	5-6	4-5	4-5	4-5	4
	Yellow M-3RE	Y145	4.0	6	4-5	4-5	3-4	3
	Brill. Orange M-2R	O122	3.0	4	4	4	3-4	3
	Scarlet M-GF	R222	3.0	5	4	4	4	3-4
	Red M-2BE	R194	3.0	5	4-5	5	4-5	3-4
	Red M-3BF	R261	3.0	4	4	4	4-5	3-4

Reactive Dyes	Product Name	Color Index Number	Dyeing Depth 0.1w.f.%	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Red M-3BE	R195	4.0	4-5	4	4	3-4	2-3
	Red M-6BF	R250	3.0	3	4	4	3	2-3
	Red M-8B	mix	3.0	4	4	4	4-5	3-4
	Violet M-R	mix	3.0	4	4-5	4	4-5	4
	Turq. Blue M-GB	B231	3.0	6	3-4	4-5	4-5	3
	Blue M-BRF	B221	3.0	6-7	4-5	3-4	4-5	4
	Navy M-R	mix	3.0	5-6	3-4	4	4-5	4
	Blue M-2GE	B194	4.0	3-4	3-4	3-4	3-4	1-2
	Blue M-BF	B222	3.0	4-5	4	4	4	3
	Brown M-2RBE	mix	4.0	5	3-4	4	4	2-3
	Black WNN	mix	6.0	4	4-5	5	4-5	3

Reactive Dyes	Product Name	Color Index Number	Printing Depth g/l	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
Reactive Dyes For Printing								
	Brill. Yellow K-6G	Y2	40	6-7	4-5	4-5	5	4
	Yellow K-RN	Y3	40	6	4-5	4-5	4-5	3-4
	Brill. Yellow K-4G	Y18	40	6	4-5	4-5	4-5	4
	Orange K-GN	O5	40	5-6	4-5	4-5	4-5	3
	Brill. Orange K-7R	O13	40	4-5	4-5	4-5	4-5	2-3
	Brill. Red K-2G	R15	40	5-6	4-5	4-5	4-5	2-3
	Brill. Red K-2BP	R3	40	6	4-5	4-5	4-5	2-3
	Violet K-3R	V2	40	6-7	4-5	4-5	4-5	3-4
	Brill. Blue K-GR	B5	40	6	4-5	4-5	4-5	3-4
	Turq. Blue K-GR 130%	B14	40	7	3-4	4	4-5	3-4
	Brill. Blue P-3R	B49	50	6	5	4-5	4-5	4
	Dark Blue K R	B13	40	6-7	4-5	4-5	4-5	3
	Brill. Blue K-3R 150%	B74	40	5-6	4	4	4-5	4

Reactive Dyes	Product Name	Color Index Number	Printing Depth g/l	Fastness Properties				
				Light(xenou) 1:1 standard depth	Washing (40°C)	Perspiration	Rubbing (Dry)	Rubbing (Wet)
	Yellow brown K-GR	Br2	40	7	4-5	4-5	4-5	3-4
	Red Brown K-B3R	Br9	40	4-5	4-5	4-5	4	2-3
	Black K-BR	Bk8	100	4-5	4	4-5	4-5	2-3