











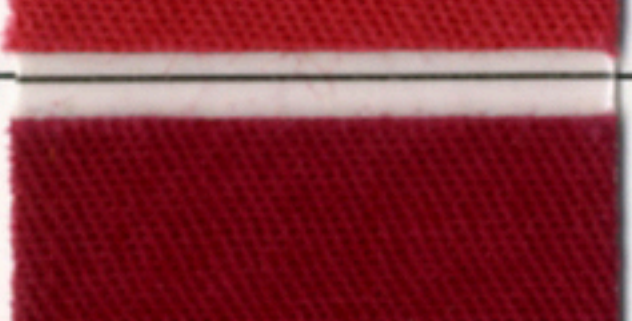




















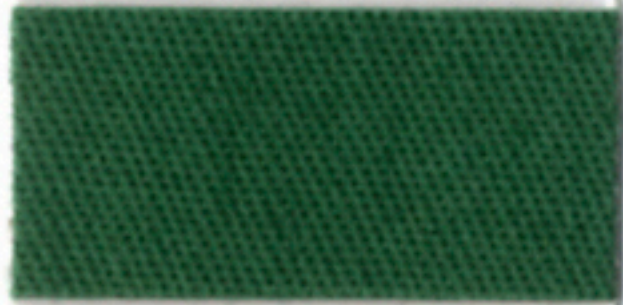





















		C.I.No. (Vat)	Dyeing depth (% o.w.f.)	Fastness								Dyeing method
Names of Vat Dyes	Colour Sample			Light(xenou)	Washing (95°C)		Perspiration		Rubbing			
					CH	CO	CH	CO	Dry	Wet		
Yellow G 100%		Y-1	4.0	6-7	5	5	5	5	5	4-5	1N	
Yellow GCN 100%		Y-2	4.0	4	4-5	4-5	4-5	4-5	4-5	4	1N	
Yellow F3GC		Y-33	4.0	6-7	5	4-5	5	4-5	4-5	4	1W	
Yellow 3GL 100%		Y-48	4.0	6-7	5	5	5	5	5	5	1N	
Golden Yellow RK		O-1	4.0	6-7	4-5	4	4-5	4-5	4	3	1W	
Golden Orange 2RT 100%		O-2	4.0	5-6	4-5	5	5	5	4-5	4	1W	
Brill. Orange 3RK 100%		O-3	4.0	7	4-5	5	5	5	3-4	3	SR I	
Brill. Orange GR 100%		O-7	4.0	6	5	5	4-5	5	4-5	3-4	1N	
Golden Orange G 100%		O-9	4.0	5-6	4-5	4-5	4	4-5	4-5	4	1N	
Yellow 3RT 100%		O-11	4.0	7	5	5	4	4	4-5	4	1N	
Pink R 100%		R-1	4.0	6	4-5	5	4-5	4-5	4-5	4	SR II	
Red FBB 100%		R-10	4.0	6-7	4	4	4-5	4	2-3	4	1W	
Rubine 6B 100%		R-13	4.0	7-8	4	4	4	3-4	3-4	2-3	1N	
Scarlet GG 100%		R-14	4.0	7	4-5	5	4	4-5	4-5	3-4	1N	
Bordeaux RR 100%		R-15	4.0	6-7	4-5	4-5	4	5	4-5	3-4	1N	

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					CH	CO	CH	CO	Dry	Wet		
Scarlet R 100%		R-29	4.0	6	4-5	5	4-5	5	3-4	2-3	1W	
Red F3B 100%		R-31	4.0	6-7	5	5	4	4-5	4-5	3	1W	
Red BB 100%		R-32	4.0	5	3-4	4-5	4-5	4	4	4	1W	
Red EFR 100%		R-54	4.0	6	2-3	3-4	3-4	4-5	4-5	3	1N	
Violet 2R 100%		V-1	4.0	6	4-5	4-5	4-5	5	4-5	4	1N	
Violet 3B 100%		V-9	4.0	5-6	4-5	5	4-5	5	4-5	4	1N	
Indigo (Granular) 94%		B-1	4.0	3-4	2	4	2-3	2-3	1-2	1	SR I	
Blue RSN 100%		B-4	4.0	7-8	4-5	4-5	4-5	4-5	4	3-4	1N	
Blue BC 100%		B-6	4.0	7-8	4-5	5	4-5	5	4-5	4-5	1N	
Blue GCDN 100%		B-14	4.0	7-8	5	5	4-5	5	4-5	4	1N	
Dark Blue BR 100%		B-18	4.0	7	3-4	4-5	4	4	4	3	1N	
Dark Blue BO 100%		B-20	4.0	7-8	3-4	4-5	4-5	4-5	4	3	1N	
Blue VB 100%		mix	4.0	7-8	3-4	4-5	3-4	4-5	4	2-3	1N	
Blue GNX 100%		B-42	4.0	5	4-5	3-4	4-5	4-5	3-4	2-3	1N	
Blue RNX 100%		B-43	4.0	6-7	4	4-5	4-5	4-5	3	1-2	1N	

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					CH	CO	CH	CO	Dry	Wet		
Names of Vat Dyes	Colour Sample											
Green FFB 100%		G-1	4.0	7-8	4-5	5	5	5	4-5	4	1N	
Olive Green B 100%		G-3	8.0	7-8	4-5	4-5	4-5	4-5	4-5	3	1N	
Green G 100%		G-7	4.0	6-7	4-5	5	-	-	-	-	1W	
Khaki 2G 100%		G-8	4.0	7-8	5	5	4	5	4	2	1N	
Black BB 100%		G-9	4.0	8	4-5	4-5	5	5	4-5	3	1N	
Olive MW 100%		G-13	4.0	7-8	4-5	4-5	5	5	4-5	4	1N	
Brown BR 100%		Br-1	4.0	7	4-5	4-5	4-5	5	4-5	4	1W	
Brown R 100%		Br-3	4.0	7-8	5	5	4	4-5	4-5	4-5	1W	
Brown 2R 100%		Br-57	4.0	7-8	5	4	5	-	4	3-4	1N	
Brown G 100%		Br-68	4.0	7-8	4-5	5	4-5	5	4-5	4	1W	
Brown GG 100%		Br-72	4.0	7-8	5	5	5	5	4-5	4-5	1W	
Brown GS 100%		mix	4.0	7	4	4-5	4-5	4-5	4-5	3	1W	
Brown GGS 100%		mix	4.0	6-7	3	4	4-5	4-5	3-4	3	1W	
Brown LBG 100%		mix	4.0	7	4	4-5	4-5	4-5	4-5	3-4	1N	
Black CLG 100%		Bk-6	8.0	7-8	4	4-5	4-5	4-5	3	1-2	1N	

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Names of Vat Dyes	Colour Sample											
Grey M 100%		Bk-8	4.0	7	3-4	4-5	4-5	5	4-5	3	1N	
Direct Black RB 100%		Bk-9	8.0	7-8	4-5	4-5	3-4	4-5	3-4	2	SR II	
Grey 3B 100%		Bk-16	8.0	6-7	4	4-5	4	4	4	3-4	1N	
Olive T 100%		Bk-25	4.0	7-8	4-5	4-5	4-5	4-5	4-5	3-4	1N	
Olive R 100%		Bk-27	4.0	7	4-5	4-5	4-5	4-5	4-5	4	1W	
Grey BG 100%		Bk-29	6.0	6-7	4-5	4-5	4	5	4	3	1W	
Direct Black DB 100%		Bk-38	8.0	6-7	3-4	4	3	4-5	3-4	2-3	1N	

Application of Vat Dyes

1. Procedure:

1.1 Open bath

wetting with water → Dyeing → washing with cold water → Oxidizing → Washing with cold water → Soaping → Washing with hot water → Washing with cold water → Hydroex tracting → Drying.

1.2 Jip dyeing

wetting with water → Dyeing → washing with cold water → Oxidizing → Soaping → Washing with hot water → Washing with cold water → Drying.

1.3 Pad - steam process.

Pigment padding → Drying → Cooling → Chemicals liquor padding → Steaming → Washing with cold water → Oxidizing → Washing → Soaping → washing → Drying.