



Adimine Series



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Greenville Colorants

Dye Name	Affinity	H.T. Stability	Discharge	Dead Cotton Coverage	Light Fastness Xenon	Wash Test #1a Alt. * Cotton Stain	Wash Test #2a Alt. * Cotton Stain	Acid Perspiration Alt. * Cotton Stain	Water Bleed Alt. * Cotton Stain	Crock Test Wet * Dry
4% Adimine Flavine 7GFF Direct Yellow 96	A	G	Neutral 1 Alkaline 1	-	Cotton 2 Viscose -	Untreated 3~4*3~ 2 Treated 3~4*2	Untreated * Treated 4~5*5	Untreated * Treated 4~5*5	Untreated * Treated 4~5*5	Untreated 4*4 Treated * -
2% Adimine Yellow PG Direct Yellow 142	B	F	Neutral - Alkaline -	G	Cotton 4~5 Viscose 5	Untreated * Treated * -	Untreated 2* Treated 3* -	Untreated 3* Treated * -	Untreated * Treated * -	Untreated 3~4*4 ~5 Treated * -
1% Adimine Yellow 5GLL Conc. Direct Yellow 44	A	P	Neutral 5 Alkaline 4	G	Cotton 4 Viscose 4~5	Untreated 3*2~3 Treated 3~4*3	Untreated 1~2*1~2 Treated 2*2	Untreated 1~2*1~2 Treated 1~2*1~2	Untreated 2*1~2 Treated 5*4~5	Untreated 4*5 Treated 3~4*5
1.5% Adimine Yellow 2RLSW Direct Yellow 50	A	P	Neutral 5 Alkaline 2~3	M	Cotton 6 Viscose 6~7	Untreated 3*3 Treated 3~4*3~4	Untreated 2*1~2 Treated 3*2~3	Untreated 1~2*1~2 Treated 1~2*1~2	Untreated 3*2~3 Treated 5*5	Untreated 4*5 Treated 4*5
2% Adimine Yellow RL Direct Yellow 86	B	G	Neutral 5 Alkaline 3	G	Cotton 5~6 Viscose 5~6	Untreated 4*2~3 Treated 3*3	Untreated 3~4*1~2 Treated 2~3*2	Untreated 4*2~3 Treated 3*3	Untreated 4*1~2 Treated 4~5*5	Untreated 3~4*5 Treated 3~4*5
2% Adimine Yellow EFC Direct Yellow 106	B	G	Neutral 1 Alkaline 1	G/M	Cotton 6~7 Viscose 6~7	Untreated 3~4*3~4 Treated 4~5*4~5	Untreated 2~3*2~3 Treated 4*4	Untreated 3~4*3~4 Treated 4~5*4~5	Untreated 4*3 Treated 5*5	Untreated 4*5 Treated 4~5*5
2% Adimine Yellow AXL Direct Yellow 106(s)	B	VG	Neutral - Alkaline -	G	Cotton 5 Viscose 5~6	Untreated * Treated * -	Untreated 4~5* Treated 4~5* -	Untreated 5*5 Treated * -	Untreated * Treated * -	Untreated 4*5 Treated * -
2% Adimine Orange XL Direct Yellow 105(S)	B	G	Neutral 4 Alkaline 3	G	Cotton 4 Viscose 5	Untreated 3~4*3~4 Treated 4*4~5	Untreated 2~3*2 Treated 3*3~4	Untreated 5*4~5 Treated 5*5	Untreated 4*3~4 Treated 5*5	Untreated 3~4*5 Treated 3~4*5
2% Adimine Orange RT Direct Orange 39S	B	G	Neutral 3~4 Alkaline 3	M	Cotton 5 Viscose 5	Untreated 3~4*3 Treated 4*4	Untreated 2*2 Treated 2~3*3	Untreated 3~4~4 Treated 4~5*5	Untreated 3*2 Treated 5*5	Untreated 4*5 Treated 4*5
1% Adimine Orange 2GL 200% Direct Orange 39	B	G	Neutral 4 Alkaline 2	M	Cotton 5~6 Viscose 5~6	Untreated 3~4*3 Treated 4*4	Untreated 2~3*2 Treated 3~4*3~4	Untreated 3~4*2 Treated 4~5*5	Untreated 3~4*2 Treated 4~5*5	Untreated 4*5 Treated 4~5*5
1.5% Adimine Brown AGL-S Direct Brown Mix	A	G	Neutral 3 Alkaline 2	G	Cotton 5~6 Viscose 5~6	Untreated * Treated * -	Untreated * Treated * -	Untreated 4*3 Treated 4~5*3~4	Untreated * Treated 4~5*5	Untreated 4*5 Treated * -
3% Adimine Red BNLL Direct Red 89	B	G	Neutral 2~3 Alkaline 2~3	G	Cotton 4 Viscose 6	Untreated 4*3~4 Treated 4~5*4	Untreated 3~4*2~3 Treated 4*3	Untreated 5*4~5 Treated 5*5	Untreated 3~4*2~3 Treated 5*5	Untreated 4*5 Treated 4*5
1.5% Adimine Scarlet 4BS Conc. Direct Red 23	C	P	Neutral 4 Alkaline 4	M	Cotton 2~3 Viscose 2~3	Untreated 4*2 Treated 4*3	Untreated 3*1~2 Treated 3~4*2	Untreated 4*3~4 Treated 4~5*4~5	Untreated 4*2 Treated 5*4~5	Untreated 3*5 Treated 3*4~5
2.5% Adimine Scarlet F2G Direct Red 224	B	G	Neutral 3 Alkaline 3	G/M	Cotton 3 Viscose 4~5	Untreated 3~4*3 Treated 4*3	Untreated 3*2 Treated 4*3	Untreated 4*3~4 Treated 3~4*4	Untreated 4*3~4 Treated 3~4*4	Untreated 4*5 Treated 3~4*5
1.5% Adimine Scarlet 4SWN Direct Red 72	B	P	Neutral 4~5 Alkaline 3	P	Cotton 2 Viscose 3	Untreated 4*3 Treated 4~5*4	Untreated 3*2 Treated 3~4*3~4	Untreated 4~5*4 Treated 4~5*5	Untreated 4~5*4 Treated 4~5*5	Untreated 4*5 Treated 4*5



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Dye Name	Affinity	H.T. Stability	Discharge	Dead Cotton Coverage	Light Fastness Xenon	Wash Test #1a Alt. * Cotton Stain	Wash Test #2a Alt. * Cotton Stain	Acid Perspiration Alt. * Cotton Stain	Water Bleed Alt. * Cotton Stain	Crock Test Wet * Dry
2% Adimine Scarlet 4BA Direct Red 24	B	P	Neutral 3~4 Alkaline 3~4	L	Cotton 2 Viscose 2	Untreated 3~4 * 2~3 Treated 4~5 * 4	Untreated 2~3 * 2 Treated 4 * 3	Untreated 4 * 3~4 Treated 4~5 * 5	Untreated 3~4 * 2 Treated 5 * 5	Untreated 3~4 * 5 Treated 4 * 5
2% Adimine Scarlet 8BSA Direct Red 26	B	P	Neutral 4 Alkaline 4	M	Cotton 2 Viscose 2	Untreated 4 * 2~3 Treated 4~5 * 3~4	Untreated 3 * 2 Treated 3~4 * 2~3	Untreated 4 * 3 Treated 5 * 4~5	Untreated 3~4 * 2 Treated 5 * 4~5	Untreated 4 * 5 Treated 4 * 5
2.5% Adimine Red 8BLN Direct Red 80	B	P	Neutral 3~4 Alkaline 4	M/L	Cotton 3~4 Viscose 4~5	Untreated 3 * 3 Treated 3~4 * 4	Untreated 2~3 * 2 Treated 3~4 * 3	Untreated 4~5 * 4 Treated 4 B * 5	Untreated 3~4 * 2 Treated 5 * 5	Untreated 3~4 * 5 Treated 3~4 * 5
2% Adimine Red 5BL EX Conc. Direct Red 81	A	P	Neutral 5 Alkaline 5	L	Cotton 4 Viscose 4	Untreated 2~3 * 1~2 Treated 3 * 1~2	Untreated 1~2 * 1~2 Treated 1~2 * 1~2	Untreated 3 * 1~2 Treated 4 * 3~4	Untreated 2~3 * 1 Treated 5 * 4~5	Untreated 3~4 * 5 Treated 3 * 5
2% Adimine Red 6BLL Direct Red 79	B	P	Neutral 5 Alkaline 5	L	Cotton 5~6 Viscose 6	Untreated 4 * 3 Treated 3~4 Y * 3	Untreated 3 * 2 Treated 3~4 Y * 3	Untreated 3~4b * 4~5 Treated 4~5 * 5	Untreated 4 * 2~3 Treated 5 * 5	Untreated 4 * 5 Treated 4~5 * 5
2.5% Adimine Red BWS Direct Red 243	B	G	Neutral 3~4 Alkaline 3~4	L	Cotton 4 Viscose 6	Untreated 3 * 2 Treated 3 * 2	Untreated 2 * 1~2 Treated 2 * 1~2	Untreated 3 * 1~2 Treated 4 * 3	Untreated 2~3 * 1~2 Treated 5 * 5	Untreated 3~4 * 5 Treated 3~4 * 4~5
3% Adimine Violet 2RL Direct Red 83	A	P	Neutral 3 Alkaline 2	L	Cotton 5~6 Viscose 6~7	Untreated 3~4 * 3 Treated 4~5 * 4	Untreated 2~3 * 2 Treated 4~5 * 3~4	Untreated 4 B * 3 Treated 5 * 5	Untreated 3 * 2 Treated 5 * 5	Untreated 3~4 * 5 Treated 4 * 5
2% Adimine Rubine WLKS Direct Red	C	G	Neutral 2 Alkaline 2	L	Cotton 5~6 Viscose 6~7	Untreated 4~5 * 3 Treated 5 * 4~5	Untreated 3~4 * 2 Treated 4~5 * 4	Untreated 4~5 * 4~5 Treated 5 * 5	Untreated 4 * 2~3 Treated 5 * 5	Untreated 4 * 5 Treated 4 * 5
4% Adimine Pink B 145 % Direct Red 9	A	G	Neutral 2 Alkaline 2	L	Cotton 3 Viscose 4	Untreated 3 * 2~3 Treated 4 * 3	Untreated 1~2 * 2 Treated 2 * 2~3	Untreated 3 B * 2~3 Treated 4 B * 5	Untreated 2~3 * 2 Treated 5 * 5	Untreated 3~4 * 5 Treated 4 * 5
2% Adimine Rose LRK Direct Red 227	B	G	Neutral 2 Alkaline 2	L	Cotton 2 Viscose 2	Untreated 4 * 2~3 Treated 4 * 3	Untreated 3~4 * 2 Treated 3~4 * 3	Untreated 3 * 2~3 Treated 5 * 3	Untreated 3 * 2 Treated 5 * 5	Untreated 3~4 * 5 Treated 4 * 5
2% Adimine Bordeaux 6B 200% Direct Red 16	B	G	Neutral - Alkaline -	M	Cotton 3 Viscose 3~4	Untreated - * - Treated - * -	Untreated 2 * - Treated 3~4 * -	Untreated 4 * - Treated ~* 3	Untreated - * - Treated - * -	Untreated 3~4 * 5 Treated - * -
1% Adimine Violet 5BL Direct Violet 66	B	G	Neutral 3 Alkaline 2	L	Cotton 4~5 Viscose 4~5	Untreated 3~4 * 3 Treated 4~5 * 4~5	Untreated 2~3 * 2 Treated 4~5 * 4	Untreated 2~3b * 3~4 Treated 4 B * 5	Untreated 2~3 * 3~4 Treated 5 * 5	Untreated 4~5 * 5 Treated 4~5 * 5
1% Adimine Violet BC 200% Direct Violet 9	A	G	Neutral 5 Alkaline 5	L	Cotton 1~2 Viscose 2	Untreated 3~4 * 2 Treated 4 * 2	Untreated 3~4 * 1 Treated 3~4 * 1~2	Untreated 3~4 * 3 Treated 4~5 * 4	Untreated 2 * 1~2 Treated 5 * 4~5	Untreated 3~4 * 5 Treated 3~4 * 4~5
2% Adimine Violet FFB Direct Violet 51	A	P	Neutral - Alkaline -	M	Cotton 3~4 Viscose 3~4	Untreated - * - Treated - * -	Untreated 3 * - Treated 3 * -	Untreated 3 * - Treated - * -	Untreated - * - Treated - * -	Untreated 2~3 * 4~5 Treated - * -
2% Adimine Blue 2RL Direct Blue 80	B	G	Neutral 2~3 Alkaline 2~3	L	Cotton 5~6 Viscose 6~7	Untreated 3~4 * 2~3 Treated 4~5 * 4	Untreated 2 * 2 Treated 4 * 3	Untreated 4 * 3 Treated 4~5 * 5	Untreated 2~3 * 1~2 Treated 5 * 5	Untreated 4~5 * 5 Treated 4~5 * 5



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	Dye Name	Affinity	H.T. Stability	Discharge	Dead Cotton Coverage	Light Fastness Xenon	Wash Test #1a Alternative * Cotton Stain	Wash Test #2a Alternative * Cotton Stain	Acid Perspiration Alternative * Cotton Stain	Water Bleed Alternative * Cotton Stain	Crock Test Wet * Dry
1.5%	Adimine Blue NBLL Direct Blue 80(s)	B	G	Neutral 2 Alkaline 2	L	Cotton 5~6 Viscose 6~7	Untreated 4 * 3 Treated 4~5 * 4	Untreated 3~4 * 1~2 Treated 4~5 * 3~4	Untreated 4 R * 4~5 Treated 4~5 R * 5	Untreated 4 * 2~3 Treated 5 * 5	Untreated 4~5 * 5 Treated 4 * 4~5
2%	Adimine Blue FFRL Direct Blue 108	B	G	Neutral 1 Alkaline 1	L	Cotton 6 Viscose 6~7	Untreated 2 G * 2 Treated 2~3 G * 2~3	Untreated 1~2 * 2 Treated 2 * 2	Untreated 3 * 1~2 Treated 5 * 5	Untreated 3 * 1~2 Treated 5 * 5	Untreated 4 * 5 Treated 4 * 5
1.5%	Adimine Blue L Direct Blue 98(s)	B	G	Neutral 5 Alkaline 5	G	Cotton 5 Viscose 6~7	Untreated 4 * 3~4 Treated 4~5 * 4~5	Untreated 3~4 * 2 Treated 4~5 * 4~5	Untreated 5 * 4~5 Treated 5 * 5	Untreated 4 * 3 Treated 5 * 5	Untreated 4 * 5 Treated 4 * 5
1.5%	Adimine Blue 5B 200% Direct Blue 25	A	G	Neutral 5 Alkaline 5	L	Cotton 1~2 Viscose 2~3	Untreated 3 * 2~3 Treated 3~4 * 2~3	Untreated 2 * 1~2 Treated 2 * 1~2	Untreated 3 * 2~3 Treated 5 * 4~5	Untreated 4 * 5 Treated 3~4 * 5	Untreated 4~5 * 5 Treated 4 * 4~5
3%	Adimine Br. Blue GL Direct Blue 293	B	G	Neutral 1 Alkaline 1	G	Cotton 5~6 Viscose 5~6	Untreated 3 * 3 Treated 4 * 3~4	Untreated 2~3 * 2 Treated 3 * 2	Untreated 3 * 2 Treated 4~5 * 3~4	Untreated 2~3 * 2 Treated 4~5 * 4~5	Untreated 3 * 5 Treated 3~4 * 5
2%	Adimine Blue 4GL Direct Blue 78	B	G	Neutral 3 Alkaline 3	L	Cotton 3~4 Viscose 5	Untreated 3~4 * 3 Treated 4 * 3~4	Untreated 3 * 2~3 Treated 3~4 * 3	Untreated 5 * 4~5 Treated 5 * 5	Untreated 3~4 * 2 Treated 5 * 5	Untreated 4 * 5 Treated 4 * 5
1%	Adimine Blue 4BL 200% Direct Blue 200	B	G	Neutral 3 Alkaline 2	M	Cotton 5 Viscose 5	Untreated 4 * 2~3 Treated 4~5 * 4	Untreated 3~4 * 2 Treated 4 * 3~4	Untreated 4~5 * 4 Treated 5 * 5	Untreated 3 * 1~2 Treated 5 * 5	Untreated 4 * 5 Treated 4 * 5
2.5%	Adimine Blue BL Direct Blue 106	B	L/P	Neutral 1 Alkaline 1	M	Cotton 5 Viscose 6	Untreated 3 * 2~3 Treated 3 G * 3	Untreated 1~2 * 1~2 Treated 2 G * 2~3	Untreated 4 R * 3 Treated 4 R * 5	Untreated 2~3 * 1~2 Treated 4 R * 5	Untreated 3 * 5 Treated 3 * 4~5
2%	Adimine Blue C Direct Blue	B	G	Neutral - Alkaline -	M	Cotton 4 Viscose 4~5	Untreated - * - Treated - * -	Untreated - * 3 Treated - * 4	Untreated 4~5 * - Treated - * -	Untreated - * - Treated - * -	Untreated - * - Treated - * -
2.0%	Adimine Blue 8GLN Direct Blue 191(s)	A	G	Neutral 4 Alkaline 3	L	Cotton 5 Viscose 5	Untreated 3~4 * 2~3 Treated 4 * 3~4	Untreated 2~3 * 2 Treated 4 * 3	Untreated 3~4 * 2 Treated 4~5 G * 5	Untreated 3 * 1~2 Treated 5 * 5	Untreated 4~5 * 5 Treated 4~5 *
3%	Adimine Blue FGL Direct BLUE 90	B	G	Neutral 3 Alkaline 3	M	Cotton 5~6 Viscose 6	Untreated 4 * 3 Treated 4~5 * 4~5	Untreated 3~4 * 2 Treated 4~5 * 4	Untreated 4~5 * 4 Treated 4~5 G * 5	Untreated 3~4 * 2~3 Treated 5 * 5	Untreated 4 * 5 Treated 4 * 4~5
2%	Adimine Blue FBLE 220% Direct Blue 85	A	G	Neutral 4 Alkaline 5	L	Cotton 4~5 Viscose 5	Untreated 4 * 3~4 Treated 5 * 4~5	Untreated 3~4 * 2~3 Treated 4~5 * 4	Untreated 5 * 4~5 Treated 5 * 5	Untreated 3~4 * 2~3 Treated 5 * 5	Untreated 4~5 * 5 Treated 4~5 *
2%	Adimine Blue FBLE 220% Direct Blue 85	A	G	Neutral 4 Alkaline 5	L	Cotton 4~5 Viscose 5	Untreated 4 * 3~4 Treated 5 * 4~5	Untreated 3~4 * 2~3 Treated 4~5 * 4	Untreated 5 * 4~5 Treated 5 * 5	Untreated 3~4 * 2~3 Treated 5 * 5	Untreated 4~5 * 5 Treated 4~5 *
2%	Adimine Br. Blue 3GLST Direct Blue 218	B	G	Neutral 4 Alkaline 5	L	Cotton 5 Viscose 5	Untreated 4 * 2~3 Treated 4~5 * 4	Untreated 3 * 2 Treated 4 * 3	Untreated 4 * 3 Treated 4~5 G * 5	Untreated 3 * 1~2 Treated 5 * 5	Untreated 4~5 * 5 Treated 4~5 *
1%	Adimine Turquoise FBL 400% Direct Blue 199	A	G	Neutral 2 Alkaline 2	M	Cotton 5~6 Viscose 5~6	Untreated 3~4 * 3 Treated 4~5 * 3~4	Untreated 2 * 2~3 Treated 4 * 3	Untreated 3 * 2~3 Treated 5 * 5	Untreated 2 * 2 Treated 5 * 5	Untreated 3 * 5 Treated 3 * 5



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Dye Name	Affinity	H.T. Stability	Discharge	Dead Cotton Coverage	Light Fastness Xenon	Wash Test #1a Alternative * Cotton Stain	Wash Test #2a Alternative * Cotton Stain	Acid Perspiration Alternative * Cotton Stain	Water Bleed Alternative * Cotton Stain	Crock Test Wet * Dry
2% Adimine Turq. GRLL 250% Direct Blue 189	B	G/L	Neutral 4 Alkaline 5	G	Cotton 4 Viscose 5	Untreated 3~4 *3 Treated 4~5 *4	Untreated 2 *3~4 Treated 2~3 *3~4	Untreated 4 G *3 Treated 5 *5	Untreated 3 *2~3 Treated 5 *5	Untreated 3~4 *5 Treated 4 *4~5
2.5% Adimine Turquoise GL Direct Blue 86	B	G	Neutral 4 Alkaline 2	M	Cotton 4 Viscose 2	Untreated 2~3 *3~4 Treated 4 *3~4	Untreated 1~2 *3~4 Treated 3 *3~4	Untreated 3 G *2~3 Treated 3 G *5	Untreated 2~3 *2 Treated 4~5 G *5	Untreated 4~5 *5 Treated 4 *5
1.5% Adimine Blue FFC Ex Conc. Direct Blue 71	B	L	Neutral 4 Alkaline 24~5	L	Cotton 4 Viscose 4~5	Untreated 4 *3 Treated 4~5 *3	Untreated 3 *2 Treated 4 *2~3	Untreated 4 *3~4 Treated 5 *5	Untreated 3~4 *2 Treated 5 *5	Untreated 3~4 *5 Treated 3~4 *5
2.5% Adimine Navy NBLC Direct Blue	B	G	Neutral 4 Alkaline 4	L	Cotton 4 Viscose 4	Untreated 4 *2~3 Treated 4~5 *4	Untreated 2~3 *3~2 Treated 4 *3	Untreated 4~5 *3 Treated 5 *5	Untreated 3~4 *1~2 Treated 5 *5	Untreated 4 *5 Treated 4~5 *5
3% Adimine Blue BRL 200% Direct Blue 201	B	G	Neutral - Alkaline -	M	Cotton 5~6 Viscose 7~8	Untreated - * - Treated - * -	Untreated 4~5 * - Treated 4~5 * -	Untreated 4~5 *4~5 Treated - * -	Untreated - * - Treated - * -	Untreated 2 *4~5 Treated -
1.5% Adimine Navy Blue RLL 400% Direct Blue 160	B	G	Neutral - Alkaline -	G	Cotton 6 Viscose 6~7	Untreated - * - Treated - * -	Untreated - * - Treated 4 * -	Untreated 3 * - Treated - * -	Untreated - * - Treated - * -	Untreated 4 *5 Treated -
3% Adimine Navy Blue RLS 200% Direct Blue 160 (S)	B	G	Neutral 3~4 Alkaline 4~5	L	Cotton 5 Viscose 5~6	Untreated 4g *4 Treated 4g *4-	Untreated 4g *3~4 Treated 4g- *3~4	Untreated 4g *4~5 Treated 4g *4~5	Untreated 5 *5 Treated 5 *5	Untreated 4 *5 Treated 3~4 *5
1% Adimine Brill. Green 2BNB Ex Conc. Direct Green	A	P	Neutral 2 Alkaline 2	L	Cotton 2 Viscose 2	Untreated 3 *2 Treated 4~5 *4~5	Untreated 2 *1~2 Treated 4 *2~3	Untreated 4~5 *3~4 Treated 5 *5	Untreated 3 *2 Treated 5 *5	Untreated 3~4 *5 Treated 4 *5
2% Adimine Green BL 155% Adimine Green 26	A	G	Neutral 3 Alkaline 3	G	Cotton 5~6 Viscose 5	Untreated - * - Treated - * -	Untreated 3 *2~3 Treated 4 *3~4	Untreated 5 *3~4 Treated - * -	Untreated - * - Treated 4~5 *5	Treated 4~5 *4~5 Untreated - * -
1% Adimine Grey CGL 250% Direct Black 112	B	P	Neutral 3 Alkaline 2~3	L	Cotton 5~6 Viscose 6	Untreated 3~4 *1~2 Treated 4 *2	Untreated 2~3 *2 Treated 4~5 *3~4	Untreated 2~3r *3 Treated 3r *5	Untreated 3~4 *2 Treated 5 *5	Untreated 4~5 *5 Treated 4~5 *5
4% Adimine Diazo Black BHN-B-T Supra Direct Black 165 (S)	B	P	Untreated 4 Treated 3	G	Cotton 2 Viscose 2~3	Untreated 3 *1~2 Treated 3~4 *2	Untreated 2~3 *1 Treated 3 *1~2	Untreated 4 *1~2 Treated 4~5 *1	Untreated 3~4 *1 Treated 4~5 *3	Untreated 2~3 *4~5 Treated 2~3 *4~5
5% Adimine Black FG Hi Conc. Direct Black 22	B	G	Neutral - Alkaline -	G	Cotton 2 Viscose 2	Untreated - * - Treated - * -	Untreated 4~5 * - Treated 4~5 * -	Untreated 4~5 * - Treated - * -	Untreated - * - Treated - * -	Untreated 5 *4~5 Treated -
4% Adimine Black OB 200% Direct Black 80	B	G	Neutral 4 Alkaline 4	L	Cotton 4 Viscose 5	Untreated 4 *1~2 Treated 4~5 *3	Untreated 2 *1~2 Treated 3~4 *2	Untreated 3b *5 Treated 4b *4~5	Untreated 3~4 *1~2 Treated 5 *5	Untreated 3~4 *5 Treated 3~4 *5
4% Adimine Black BH-NB Supra Direct Black 165 (S)	A	F	Neutral - Alkaline -	G	Cotton 4~5 Viscose 5	Untreated - * - Treated - * -	Untreated 4 * - Treated 4~5 *1	Untreated 4 *1~2 Treated 4~5 *4	Untreated - * - Treated - * -	Untreated 3 *5 Treated -
4% Adimine Black GX-NB Conc. Direct Black 170(s)	B	G	Neutral 5 Alkaline 4	M	Cotton 3 Viscose 3~4	Untreated 3~4 *1~2 Treated 4 *2	Untreated 2~3 *1~2 Treated 3 *1~2	Untreated 4 *3 Treated 5 *4~5	Untreated 3 *1~2 Treated 5 *4~5	Untreated 2~3 *4~5 Treated 3 *54~5

Fastness Tests

Affinity (SDC*) GROUP

GROUP A

- ◆ Slow striking; excellent leveling agent properties
- ◆ Usually require larger amounts of salt for exhaustion
- ◆ Prolonged boiling will relive unsatisfactory dyeing more easily than dyes in the other two groups tend to “feed on” the cooling bath.

GROUP B

- ◆ Medium rate of strike; fair to good leveling properties
- ◆ Moderate amounts of salt required; salt controllable
- ◆ Sensitive to excess salt concentrations and temperature variations

GROUP C

- ◆ Due to their relatively rapid strike, dyes in this group are more salt sensitive and require very little or no electrolyte light shades for uniform exhaustion and level of dyeing.
- ◆ Temperature is controllable

*SDC – Society Of Dyers & Colorists

High Temperature Stability

Cotton dyeings were made at 250^o F (120^o C) in a bath containing polyester auxiliaries and the direct dye, but without disperse dyes. The resultant dyeings were evaluated against standard atmospheric cotton dyeings for color yield and alteration of shade.

VG = Very Good
G = Good
L = Limited
P = Poor

Discharge

- 5 – White discharge
- 4 – Nearly white discharge
- 3 – Suitable for printed color fabrics, but not suitable for white
- 2 – Unsuitable for white or colored effects
- 1 – Not dischargeable

Neutral Discharge Paste

60% Textile Gum
20% Sodium Sulfoxylate Formaldehyde
20% Water

Alkaline Discharge Paste

60% Textile Gum
10% Potassium Carbonate
20% Sodium Sulfoxylate Formaldehyde
20% Water

Light Fastness

All fastness tests were conducted in accordance with AATCC Standard Test Methods where acceptable. Ratings for shade alteration were made according to the AATCC Grey Scales.

Dead Cotton Coverage

Dyeings were made on material containing large amounts of dead cotton using the standard atmospheric dyeing method. Dyeings were rated for good, moderate or low coverage of dead cotton.

G = Good
M = Moderate
L = Low

Xenon –

AATCC Test Method 16E-1987: Colorfastness to light, water-cooled xenon arc lamp – continuous light. Tests were conducted on untreated fabric.

Hours	Ratings	Class
320	8	Outstanding
160	7	Excellent
80	6	Very Good
40	5	Good
20	4	Fairly Good
10	3	Fair
5	2	Poor
<5	1	Very Poor

Wash Test #1A and #2A -

AATCC Test Method 61-1989, Test #1A and #2A: Colorfastness to laundering—home and commercial; Accelerated.

Acid Perspiration -

AATCC Test Method 15-1985: Colorfastness to water to perspiration.

Water Bleed -

AATCC Test Method 107-1986: Colorfastness to water.

Crock Test -

AATCC Crockmeter Method; Test Method 8-1988: Colorfastness to Crocking.

Fastness Ratings –

Alteration of Shade-

Cotton Staining-

- 5- No staining
- 4- Very light staining
- 3- Noticeable staining
- 2- Considerable staining
- 1- Heavy staining

Other Terms

- B- Bluer
- G- Greener
- R- Redder
- Y- Yellower

Application Procedures

Pretreatment

Goods that are dyed with direct or developed dyes should have maximum absorption and be thoroughly pre- wet for high quality dyeings. For the most economical use of dyes, prescouring, bleaching and mercerizing is recommended. Mercerizing increases the brilliance and depth of color. Pretreated goods should be thoroughly rinsed free of any residual acid, alkali or chlorine before dyeing.

- 5- Shade unaltered
- 4- Very Slightly altered
- 3- Noticeably altered
- 2- Distinctly Altered
- 1- Considerably Altered

Atmospheric Dyeing Procedures

Prepare bath at 120°F (50°C) with:
 0.25 g/l TSPP (or 0.10 g/l Soda Ash, when Dyeing cotton) to pH 7.5-8.5
 X% direct dye(s) pre-dissolved at 212°F (100°C)
 Run 5 minutes at 120°F (50°C)
 Raise to 212°F (100°C) over 30 minutes
 Run 10 minutes at 212°F (100°C)
 Add in three portions, Common or Glauber's salt (see Below)
 Run 30-45 minutes in a cooling bath (steam off) for good exhaust.
 Rinse.
 After-treat if necessary.

High Temperature Dyeing Procedures

When dyeing polyester/cotton blended fibers:

Prepare bath at 120°F (50°C)
 Adjust pH to 5.5 using MSP/Acetic Acid.
 X% direct dye(s) pre-dissolved at 212°F (100°C)
 Pre-dispersed disperse and direct dye(s) at 120°F (50°C) maximum
 Raise Temperature to 250°-265°F (120°-130°C)
 Run 30-45 minutes
 Cool to 180°F (82°C)
 Add Glauber's Salt to exhaust dye (see below)
 Raise to 200°F (93°C) and run 30 minutes.
 Rinse cold.
 After-treat if desired

Amount of Common or Glauber's Salt

% Direct Dye	Salt		% At Ratio Of		
	G/l	10:1	20:1	40:1	
0.01-0.25	2.5	2.5	5.0	10.0	
0.26-0.50	5.0	5.0	10.0	20.0	
0.51-1.00	7.5	7.5	15.0	30.0	
1.01-2.00	10.0	10.0	20.0	40.0	
2.01-3.00	12.5	12.5	25.0	50.0	
3.01-4.00	15.0	15.0	30.0	60.0	
4.01-5.00	17.5	17.5	35.0	70.0	
5.01-Above	20.0	20.0	40.0	80.0	

****Disclaimer:**

Seller assumes no obligation or liability, whether in contract, tort, negligence, strict liability or misrepresentation for any advice or assistance given Buyer in relation to the merchandise, such advice or assistance, written or oral, being given without charge and accepted by Buyer's request and at his sole and exclusive risk. Samples will be made available at Buyer's request. Buyers are urged to make their own tests of any product described herein or of any proposed application with respect to which advice or assistance from Seller may be sought.

The fastness properties of the enclosed dyeings are dependent upon the conditions to which they are subjected, and may vary considerably if the dyed fabric is treated with additional chemicals such as fixing or finishing agents. Consequently, the dyed/finished fabric should be tested to assure that the fastness properties meet the necessary requirement. Not all shades can be produced with desired fastness properties. This point should be carefully considered before putting shades into production. The information given is based on work done in our laboratories; consideration should be given to possible variations under local conditions.