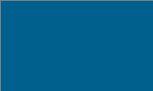


SUMIACTIVE®

DYESTUFFS



True bi-functional dyes with high build-up and excellent compatibility

SUMACTIVE DYE RANGE		% owf	Application
Yellow 3GF 150%		2,0	Brilliant lemon yellow dye , with excellent levelling properties. <i>Recommended for pale green shades in combination with Sumactive Turquoise Blue BGF(N).</i>
Lemon Yellow EXF		2,0	Brilliant lemon yellow dye for vivid shades, <i>In case of bright greens: to be used in combination with Sumactive Turquoise Blue GN 266%.</i>
Yellow 3RF 150%		2,0	Standard yellow dye for all trichromatic combinations. Light, fast and dischargeable.
Yellow EXF		2,0	Standard yellow dye for standard trichromatic combinations: <i>pale to deep shades</i> . Light, fast and dischargeable
Br.Red 3BF 150%		2,0	Standard red dye , with good wash off properties, <i>recommended for all trichromatic combinations.</i>
Red EXF		2,0	Red dye for standard trichromatic combinations: <i>pale to medium shades</i> . Also recommended for all red and orange shades.
Red GF 150%		2,0	Brilliant red shade with good light fastness <i>recommended for pale to medium shades</i> ; dischargeable to white.
Red LF		2,0	Metal-free special red for all trichromatic combinations where high light fastness is required. Compatible with dyes from all other dye ranges. Good levelling and reproducibility.
Scarlet 2GF 150%		2,0	High build-up scarlet dye with good wet fastnesses, <i>recommended for vivid red, scarlet and orange shades.</i>
Blue BRF 150%		2,0	Excellent leveling & light fastness <i>for trichromatic dyeing & blue shades.</i>
Blue EXF		2,0	Blue dye for standard trichromatic combinations: <i>pale to medium shades</i>
Navy Blue BF		3,0	Standard navy blue dye for trichromatic dyeing, excellent leveling & very high overall fastness.
Dark-Blue SPX		3,0	Blue dye for standard trichromatic combinations: <i>medium to deep shades.</i>
Turquoise Blue BGF(N)		3,0	Very good leveling & compatibility with Br. Yellow 3GF 150% for green shades.
Brill. Blue R. Special		3,0	High stability brilliant blue dye for Cold Pad Batch dyeing.
Ocean Blue S		2,0	<i>Recommended for dyeing all very bright and royal blue shades. Good compatibility with Sum Turquoise Blue BGF(N) due to a similar and rather fast fixation rate when dyed at 60 °C.</i>

Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	4-5	4	perspration-light	Acid		1/6	4			
			1/6	4-5	4		alkaline			4			
			1/3	4-5	4	Wet --light				5			
			Dyeing dept	Color change	staining on					Dyeing dept	Color change	staining on	
					cotton	wool						cotton	wool
Washing	single		1/1	5	5	5	Bleaching	Hypo-chlorite		1/1	3-4	-	-
	5 times			5	4-5	5		Peroxide				2-3	5
Peroxide washing		4-5		5	5	Hot pressing	dry	immi- diately	4		-	-	
Chlorine washing		4-5		5	5			after 4 hrs	5		-	-	
Water		5		4-5	4-5		wet		5		5		
Sea water		5		4-5	4-5	Dry cleaning			4-5		-	-	
Persprati on	Acid			5	4-5	4	Mercerizing				4-5	4-5	-
	Alkaline			4-5	5	5	Acid Spotting	Acetic asid			5	-	-
Chlorinated water		10 mg		4	-	-		Sulphuric acid			3-4	-	-
		20 mg		3-4	-	-	Alkali spotting				2-3	-	-
Chlorine in running water				4-5	-	-	Steam		color change		3-4	-	-
Nitrogen oxides (strong)				4-5	-	-	Vulcanizing		Suitility		3-4	-	-
Rubbing (wet)				-	3	-	Stability of dyed material				4	4	3-4
During dyeing Staining on				Wool		3	Dischargea bility	Neutral			4-5		
			Acetate		3-4	Alkaline		5					
			Polyester		5	Solubility			25°C	80°C			
			Polyamide		3-4		No addition		150	150			
			Acrylic		5		50 g/l Glauber salt		100	-			
Fastness after fixing treatment (1/1 dyeing dept)		Light	5	10 g/l sodium carbonate			100	-					
		Perspration-light asit	4	25 ml/l Coustic soda									
Suitable application process			Exhaust		✓✓	Cold pad batch		✓✓	Printing		✓✓		
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	4-5	4	perspration-light	Acid		1/6	4			
			1/6	4-5	4		alkaline			3-4			
			1/3	5	5	Wet --light				4			
			Dyeing dept	Color change	staining on					Color change	staining on		
					cotton	wool					cotton	wool	
Washing	single		1/1	5	5	5	Bleaching	Hypo-chlorite		1/1	3	-	-
	5 times			4-5	4-5	5		Peroxide			2-3	5	5
Peroxide washing		4-5		4-5	5	Hot pressing	dry	immi- diately	5		-	-	
Chlorine washing		4		4	4-5			after 4 hrs	5		-	-	
Water		4-5		4-5	4-5		wet		4-5		4-5		
Sea water		4-5		4-5	4-5		Dry cleaning		4-5		-	-	
Persprati on	Acid			5	5	4	Mercerizing		4-5		4-5	-	
	Alkaline			5	5	4	Acid Spotting	Acetic asid	4		-	-	
Chlorinated water		10 mg		4	-	-		Sulphuric acid			3	-	-
		20 mg		4	-	-	Alkali spotting		2-3		-	-	
Chlorine in running water				3-4	-	-	Steam		color change		3-4	-	-
Nitrogen oxides (strong)				4	-	-	Vulcanizing		Suitility		3-4	-	-
Rubbing (wet)				-	4	-	Stability of dyed material				4	4	3-4
During dyeing Staining on				Wool		3	Dischargea bility	Neutral			3		
			Acetate		3-4	Alkaline		3					
			Polyester		5	Solubility					25°C	80°C	
			Polyamide		3-4		No addition		100	> 100			
Acrylic		5	50 g/l Glauber salt		70		-						
Fastness after fixing treatment (1/1 dyeing dept)		Light		5	10 g/l sodium carbonate		-	-					
		Perspration-light asit		4	25 ml/l Coustic soda								
Suitable application process			Exhaust		✓✓	Cold pad batch		✗	Printing		✓		
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.						
			Dyeing dept	Assesment					Dyeing dept	Assesment				
				carbon	Xenon									
													arc	lamp
Light			1/25	5	> 5	perspration-light	Acid		1/6	4				
			1/6	> 5	> 5		alkaline			4				
			1/3	> 5	> 5	Wet --light				5				
			Dyeing dept	Color change	staining on					Dyeing dept	Color change	staining on		
					cotton	wool						cotton	wool	
Washing	single		1/1	5	4-5	5	Bleaching	Hypo-chlorite		1/1	4-5	-	-	
	5 times			5	4-5	5		Peroxide				4-5	-	-
Peroxide washing				5	5	5	Hot pressing	dry	immi- diately		4-5		-	-
Chlorine washing				4-5	5	5			after 4 hrs			5	-	-
Water				5	5	5		wet			4		-	
Sea water				5	5	5	Dry cleaning					4	-	-
Persprati on	Acid			5	5	5	Mercerizing				3-4		5	-
	Alkaline			4	4	4	Acid Spotting	Acetic asid				5	-	-
Chlorinated water		10 mg		4	-	-		Sulphuric acid			1		-	-
		20 mg		3-4	-	-	Alkali spotting					3-4	-	-
Chlorine in running water				4-5	-	-	Steam		color change		3		-	-
Nitrogen oxides (strong)				5	-	-	Vulcanizing		Suitility			4	-	-
Rubbing (wet)				-	4	-	Stability of dyed material				4-5		4-5	3
During dyeing Staining on				Wool			2	Dischargea bility	Neutral			4-5		
			Acetate			1-2	Alkaline		3					
			Polyester			5		Solubility						25°C
			Polyamide			3-4			No addition		150			> 150
			Acrylic			4-5			50 g/l Glauber salt		100		-	
Fastness after fixing treatment (1/1 dyeing dept)			Light			> 5	10 g/l sodium carbonate		70	-				
			Perspration-light asit			4	25 ml/l Coustic soda							
Suitable application process				Exhaust		✓✓	Cold pad batch		✓✓	Printing		✓✓		
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	> 5	5	perspration-light		Acid		1/6	4		
			1/6	> 5	> 5			alkaline			4		
			1/3	> 5	> 5	Wet --light			5				
			Dyeing dept	Color change	staining on					Dyeing dept	Color change	staining on	
					cotton	wool						cotton	wool
Washing	single		1/1	5	4-5	5	Bleaching	Hypo-chlorite		1/1	4-5	-	-
	5 times			5	4-5	5		Peroxide			4-5	-	-
Peroxide washing		5		5	5	Hot pressing	dry	immi- diately	4-5		-	-	
Chlorine washing		4		5	5			after 4 hrs	5		-	-	
Water		5		5	5		wet		4				
Sea water		5		5	5		Dry cleaning				5	-	-
Persprati on	Acid			5	4	5	Mercerizing				4	5	-
	Alkaline			5	4	5	Acid Spotting	Acetic asid			4-5	-	-
Chlorinated water		10 mg		4-5	-	-		Sulphuric acid			1	-	-
		20 mg		4	-	-	Alkali spotting				3-4	-	-
Chlorine in running water				5	-	-	Steam		color change		4-5	-	-
Nitrogen oxides (strong)				5	-	-	Vulcanizing		Suitility		v	-	-
Rubbing (wet)				-	4	-	Stability of dyed material				4-5	4-5	4
During dyeing Staining on				Wool		2-3	Dischargea bility	Neutral			4		
			Acetate		1-2	Alkaline		4					
			Polyester		3-4	Solubility			25°C	80°C			
			Polyamide		2-3		No addition		150	> 150			
Acrylic		3-4	50 g/l Glauber salt		> 100		-						
Fastness after fixing treatment (1/1 dyeing dept)			Light		5		10 g/l sodium carbonate		100	-			
			Perspration-light asit		4	25 ml/l Coustic soda							
Suitable application process			Exhaust		vv	Cold pad batch		vv	Printing		v		
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	4-5	3-4	perspration-light		Acid		1/6	3		
			1/6	5	4			alkaline			2-3		
			1/3	5	4-5	Wet --light			4-5				
			Dyeing dept	Color change	staining on					Dyeing dept	Color change	staining on	
					cotton	wool						cotton	wool
Washing	single		1/1	4-5	5	5	Bleaching	Hypo-chlorite		1/1	4-5	-	-
	5 times			4-5	4-5	5		Peroxide			4-5	-	-
Peroxide washing				5	4-5	5	Hot pressing	dry	immi- diately		1-2	-	-
Chlorine washing				5	5	5			after 4 hrs		5	-	-
Water				5	4-5	5		wet			4		
Sea water				4	4	5	Dry cleaning				5	-	-
Persprati on	Acid			4	4-5	4-5	Mercerizing				4	4-5	-
	Alkaline			4-5	4	5	Acid Spotting	Acetic asid			5	-	-
Chlorinated water		10 mg		4	-	-		Sulphuric acid			3-4	-	-
		20 mg		4	-	-	Alkali spotting				2	-	-
Chlorine in running water				4	-	-	Steam		color change		3-4	-	-
Nitrogen oxides (strong)				5	-	-	Vulcanizing		Suitility		5	-	-
Rubbing (wet)				-	3	-	Stability of dyed material				4-5	4-5	3-4
During dyeing Staining on				Wool			2	Dischargea bility	Neutral		2		
			Acetate			1-2	Alkaline		2				
			Polyester			5	Solubility					25°C	80°C
			Polyamide			3				No addition	> 150	> 150	
Acrylic			4	50 g/l Glauber salt	> 100	-							
Fastness after fixing treatment (1/1 dyeing dept)			Light			5		10 g/l sodium carbonate		> 100	-		
			Perspration-light asit			3	25 ml/l Coustic soda						
Suitable application process				Exhaust		✓✓	Cold pad batch		✓✓	Printing		✓	
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
												arc	lamp
Light			1/25	4-5	3-4	perspration-light	Acid		1/6	3-4			
			1/6	5	4-5		alkaline			3			
			1/3	5	5	Wet --light				4-5			
			Dyeing dept	Color change	staining on					Dyeing dept	Color change	staining on	
					cotton	wool						cotton	wool
Washing	single		1/1	4-5	5	5	Bleaching	Hypo-chlorite		1/1	3-4	-	-
	5 times			4-5	5	5		Peroxide				3-4	5
Peroxide washing				4-5	5	5	Hot pressing	dry	immi- diately		2-3		-
Chlorine washing				4-5	5	5			after 4 hrs			5	-
Water				5	5	5		wet			4	-	-
Sea water				4	4-5	5		Dry cleaning			5	-	-
Persprati on	Acid			4-5	4-5	4-5	Mercerizing				4	3	-
	Alkaline			4-5	4-5	4-5	Acid Spotting	Acetic asid				5	-
Chlorinated water		10 mg		4	-	-		Sulphuric acid			3-4	-	-
		20 mg		4	-	-	Alkali spotting					2	-
Chlorine in running water				4-5	-	-	Steam		color change		3-4	-	-
Nitrogen oxides (strong)				5	-	-	Vulcanizing		Suitility		4	-	-
Rubbing (wet)				-	3-4	-	Stability of dyed material				5	4-5	3-4
During dyeing Staining on				Wool		2	Dischargea bility	Neutral			5		
			Acetate		2	Alkaline		5					
			Polyester		5	Solubility					25°C	80°C	
			Polyamide		3-4				No addition	> 100	> 100		
			Acrylic		5				50 g/l Glauber salt	100	-		
Fastness after fixing treatment (1/1 dyeing dept)		Light	5	10 g/l sodium carbonate	80				-				
		Perspration-light asit	3-4	25 ml/l Coustic soda									
Suitable application process			Exhaust		✓✓	Cold pad batch		✓	Printing		✓		
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	4	4	perspration-light	Acid		1/6	4			
			1/6	4-5	4		alkaline			3-4			
			1/3	5	4-5	Wet --light				4-5			
			Dyeing dept	Color change	staining on					Color change	staining on		
					cotton	wool					cotton	wool	
Washing	single		1/1	5	5	5	Bleaching	Hypo-chlorite		1/1	3-4	-	-
	5 times			4-5	5	5		Peroxide			3-4	5	5
Peroxide washing		4-5		5	5	Hot pressing	dry	immi- diately	2-3		-	-	
Chlorine washing		4		4	4-5			after 4 hrs	5		-	-	
Water		4-5		4-5	5		wet		4		-	-	
Sea water		4		4-5	5		Dry cleaning		5		-	-	
Persprati on	Acid			4-5	4-5	4-5	Mercerizing				3-4	3	-
	Alkaline			4-5	4-5	4-5	Acid Spotting	Acetic asid			4	-	-
Chlorinated water		10 mg		3-4	-	-		Sulphuric acid			3	-	-
		20 mg		3	-	-	Alkali spotting				2	-	-
Chlorine in running water				3-4	-	-	Steam		color change		3-4	-	-
Nitrogen oxides (strong)				4-5	-	-	Vulcanizing		Suitility		4	-	-
Rubbing (wet)				-	3-4	-	Stability of dyed material				4-5	4-5	3-4
During dyeing Staining on				Wool		2	Dischargea bility	Neutral			4		
			Acetate		2	Alkaline		4					
			Polyester		5	Solubility			25°C	80°C			
			Polyamide		3-4		No addition		150	> 150			
Acrylic		5	50 g/l Glauber salt		> 100		-						
Fastness after fixing treatment (1/1 dyeing dept)			Light		5		10 g/l sodium carbonate		100	-			
			Perspration-light asit		3	25 ml/l Coustic soda							
Suitable application process			Exhaust		✓✓	Cold pad batch		✓	Printing		✓		
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	3-4	3-4	perspration-light		Acid		1/6	4		
			1/6	4	3-4			alkaline			3-4		
			1/3	4	4	Wet --light			3-4				
			Dyeing dept	Color change	staining on					Color change	staining on		
					cotton	wool					cotton	wool	
Washing	single		1/1	4-5	4-5	4-5	Bleaching	Hypo-chlorite		1/1	4-5	-	-
	5 times			4-5	4	5		Peroxide			4	4	5
Peroxide washing				4-5	4-5	5	Hot pressing	dry	immi- diately		2-3	-	-
Chlorine washing				4	4	4			after 4 hrs		5	-	-
Water				5	5	5		wet			4-5	-	-
Sea water				4-5	5	5		Dry cleaning			4-5	-	-
Persprati on	Acid			4-5	4-5	5	Mercerizing				4	3	-
	Alkaline			4-5	4-5	5	Acid Spotting	Acetic asid			5	-	-
Chlorinated water		10 mg		4	-	-		Sulphuric acid			2-3	-	-
		20 mg		4	-	-	Alkali spotting				5	-	-
Chlorine in running water				4-5	-	-	Steam		color change		4	-	-
Nitrogen oxides (strong)				5	-	-	Vulcanizing		Suitility		4	-	-
Rubbing (wet)				-	3-4	-	Stability of dyed material				4-5	4	3-4
During dyeing Staining on				Wool		1	Dischargea bility	Neutral			2-3		
			Acetate		1	Alkaline		2-3					
			Polyester		5	Solubility					25°C	80°C	
			Polyamide		2-3		No addition		150	> 150			
Acrylic		4-5	50 g/l Glauber salt		100		-						
Fastness after fixing treatment (1/1 dyeing dept)			Light		4		10 g/l sodium carbonate		100	-			
			Perspration-light asit		3-4	25 ml/l Coustic soda							
Suitable application process			Exhaust		✓✓	Cold pad batch		✓	Printing		✓		
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	5	4-5	perspration-light		Acid		1/6	4		
			1/6	> 5	5			alkaline			3-4		
			1/3	> 5	> 5	Wet --light			4				
			Dyeing dept	Color change	staining on					Dyeing dept	Color change	staining on	
					cotton	wool						cotton	wool
Washing	single		1/1	4-5	4-5	5	Bleaching	Hypo-chlorite		1/1	2	-	-
	5 times			4-5	4	5		Peroxide				3	4
Peroxide washing				4-5	4	5	Hot pressing	dry	immi- diately		5		-
Chlorine washing				4	5	5			after 4 hrs			5	-
Water				4-5	4	5		wet			5		-
Sea water				4-5	5	5		Dry cleaning				4-5	-
Persprati on	Acid			4-5	4	5	Mercerizing				4		3-4
	Alkaline			4-5	4	5	Acid Spotting	Acetic asid				4-5	
Chlorinated water		10 mg		3-4	-	-		Sulphuric acid			1		-
		20 mg		3-4	-	-	Alkali spotting					5	-
Chlorine in running water				3	-	-	Steam		color change		3		-
Nitrogen oxides (strong)				3	-	-	Vulcanizing		Suitility			3-4	-
Rubbing (wet)				-	3-4	-	Stability of dyed material				4		4-5
During dyeing Staining on				Wool		1	Dischargea bility	Neutral				3-4	
			Acetate		1	Alkaline		3-4					
			Polyester		5	Solubility					25°C		80°C
			Polyamide		2				No addition		100		> 100
Acrylic		4	50 g/l Glauber salt		80				-				
Fastness after fixing treatment (1/1 dyeing dept)		Light	5	10 g/l sodium carbonate					70		-		
		Perspration-light asit	4	25 ml/l Coustic soda									
Suitable application process			Exhaust		✓✓	Cold pad batch		✓✓	Printing		✓		
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
												arc	lamp
Light			1/25	4-5	4	perspration-light	Acid		1/6	4			
			1/6	5	4-5		alkaline			3-4			
			1/3	5	4-5	Wet --light				4			
			Dyeing dept	Color change	staining on					Dyeing dept	Color change	staining on	
					cotton	wool						cotton	wool
Washing	single		1/1	5	5	4-5	Bleaching	Hypo-chlorite		1/1	3-4	-	-
	5 times			5	4	3-4		Peroxide				4	-
Peroxide washing				4-5	4-5	5	Hot pressing	dry	immi- diately		3-4	-	-
Chlorine washing				4	4	4			after 4 hrs		5	-	-
Water				5	4-5	4-5		wet			4-5	-	
Sea water				4-5	5	5		Dry cleaning			5	-	-
Persprati on	Acid			4-5	4-5	4-5	Mercerizing				4	4-5	-
	Alkaline			4-5	4-5	5	Acid Spotting	Acetic asid			5	-	-
Chlorinated water		10 mg		4	-	-		Sulphuric acid			2-3	-	-
		20 mg		3-4	-	-	Alkali spotting				4-5	-	-
Chlorine in running water				4	-	-	Steam		color change		4	-	-
Nitrogen oxides (strong)				4	-	-	Vulcanizing		Suitility		4	-	-
Rubbing (wet)				-	3-4	-	Stability of dyed material				4-5	4-5	3
During dyeing Staining on				Wool			2	Dischargea bility	Neutral		1-2		
			Acetate			1-2	Alkaline		2-3				
			Polyester			5	Solubility					25°C	80°C
			Polyamide			2				No addition		150	> 150
Acrylic			3-4	50 g/l Glauber salt		100		-					
Fastness after fixing treatment (1/1 dyeing dept)			Light			5		10 g/l sodium carbonate		70	-		
			Perspration-light asit			4	25 ml/l Coustic soda						
Suitable application process				Exhaust		√√	Cold pad batch		√√	Printing		√	
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	4-5	3-4	perspration-light		Acid		1/6	3		
			1/6	5	4			alkaline			3		
			1/3	5	4-5	Wet --light			4				
			Dyeing dept	Color change	staining on					Color change	staining on		
					cotton	wool					cotton	wool	
Washing	single		1/1	5	5	5	Bleaching	Hypo-chlorite		1/1	4-5	-	-
	5 times			5	4-5	5		Peroxide			4	5	5
Peroxide washing		4-5		4-5	5	Hot pressing	dry	immi- diately after 4 hrs	4-5		-	-	
Chlorine washing		4		4	5				5		-	-	
Water		4-5		4	5		wet		4-5		-		
Sea water		4		4-5	5	Dry cleaning			5		-	-	
Persprati on	Acid			4	3-4	4	Mercerizing				3-4	4-5	-
	Alkaline			4	3-4	5	Acid Spotting	Acetic asid			5	-	-
Chlorinated water		10 mg		4-5	-	-		Sulphuric acid			2-3	-	-
		20 mg		4	-	-	Alkali spotting				4	-	-
Chlorine in running water				3-4	-	-	Steam		color change		4	-	-
Nitrogen oxides (strong)				5	-	-	Vulcanizing		Suitility		4	-	-
Rubbing (wet)				-	3	-	Stability of dyed material				4-5	3-4	3
During dyeing Staining on				Wool		2	Dischargea bility	Neutral			4-5		
			Acetate		1-2 <th colspan="2">Alkaline</th> <th colspan="2">4</th>	Alkaline		4					
			Polyester		4-5	Solubility			25°C	80°C			
			Polyamide		2				No addition	100	>100		
Acrylic		4	50 g/l Glauber salt	100	-								
Fastness after fixing treatment (1/1 dyeing dept)		Light	5	10 g/l sodium carbonate	100				-				
		Perspration-light asit	3	25 ml/l Coustic soda									
Suitable application process			Exhaust		✓✓	Cold pad batch		✓✓	Printing		✓✓		
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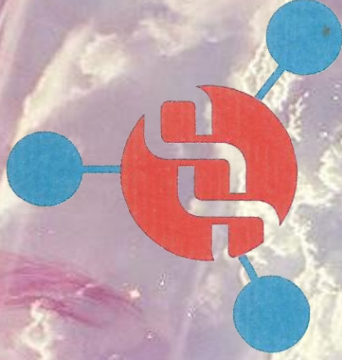
Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	3	3	perspration-light	Acid		1/6	3			
			1/6	4-5	3-4		alkaline			3			
			1/3	4-5	4-5	Wet --light				3			
			Dyeing dept	Color change	staining on					Color change	staining on		
					cotton	wool					cotton	wool	
Washing	single		1/1	5	4-5	4-5	Bleaching	Hypo-chlorite		1/1	1	-	-
	5 times			-	-	-		Peroxide			4	-	-
Peroxide washing		5		5	5	Hot pressing	dry	immi- diately after 4 hrs	4-5		-	-	
Chlorine washing		-		-	-				5		-	-	
Water		5		5	5		wet		-		-		
Sea water		4-5		5	5	Dry cleaning			5		5	5	
Persprati on	Acid			4-5	4-5	4-5	Mercerizing				4-5	4	-
	Alkaline			4-5	4-5	4-5	Acid Spotting	Acetic asid			5	-	-
Chlorinated water		10 mg		2-3	-	-		Sulphuric acid			4-5	-	-
		20 mg		1-2	-	-	Alkali spotting				4	-	-
Chlorine in running water				2	-	-	Steam		color change		5	-	-
Nitrogen oxides (strong)				5	-	-	Vulcanizing		Suitility		4	-	-
Rubbing (wet)				-	3	-	Stability of dyed material				5	5	4
During dyeing Staining on				Wool		2-3	Dischargea bility	Neutral			4-5		
			Acetate		2-3	Alkaline		4-5					
			Polyester		5	Solubility			25°C	80°C			
			Polyamide		3				No addition	> 150	> 150		
Acrylic		4	50 g/l Glauber salt	> 100	-								
Fastness after fixing treatment (1/1 dyeing dept)		Light	5	10 g/l sodium carbonate	100				-				
		Perspration-light asit	-	25 ml/l Coustic soda									
Suitable application process			Exhaust		✓✓	Cold pad batch		✓✓	Printing		✓✓		
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Fastness properties		Exhaust dyeing		Unmercerized cotton knit		1/1: 4,0 % o.w.f.							
		Dyeing dept	Assesment						Dyeing dept	Assesment			
			carbon	Xenon									
			arc	lamp									
Light		1/25	3-4	3-4	perspration-light	Acid		1/6	3				
		1/6	4	3-4		alkaline			3				
		1/3	4-5	4	Wet --light				3-4				
		Dyeing dept	Color change	staining on						Color change	staining on		
				cotton	wool						cotton	wool	
Washing	single	1/1	4-5	4	5	Bleaching	Hypo-chlorite		1/1	2	-	-	
	5 times		4-5	4-5	5		Peroxide			2			
Peroxide washing			3-4	5	5	Hot pressing	dry	immi- diately after 4 hrs		4	-	-	
Chlorine washing			3	4	4					5	-	-	
Water			5	5	4		wet			5	2-3		
Sea water			5	4-5	5	Dry cleaning				4	5	5	
Persprati on	Acid		5	5	4	Mercerizing				4	4	-	
	Alkaline		4	4	4	Acid Spotting	Acetic asid			4-5 Y	-	-	
Chlorinated water			10 mg	2-3	-		-	Sulphuric acid		2 Y	-	-	
			20 mg	2	-	-	Alkali spotting				4	-	-
Chlorine in running water			3-4	-	-	Steam		color change		3-4	-	-	
Nitrogen oxides (strong)			4-5	-	-	Vulcanizing		Suitility		3-4	-	-	
Rubbing (wet)		-	3-4	-	Stability of dyed material				4	5	4-5		
During dyeing Staining on		Wool		1-2	Dischargea bility	Neutral		1-2					
		Acetate		1-2		Alkaline						1	
		Polyester		5	Solubility			25°C	80°C				
		Polyamide		2-3		No addition		100	> 100				
Acrylic		2-3	50 g/l Glauber salt			80	-						
Fastness after fixing treatment (1/1 dyeing dept)		Light		3-4		10 g/l sodium carbonate		70	-				
		Perspration-light asit		3	25 ml/l Coustic soda								
Suitable application process			Exhaust		✓✓	Cold pad batch		✓	Printing		✓		
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 4,0 % o.w.f.						
			Dyeing dept	Assesment					Dyeing dept	Assesment				
				carbon	Xenon									
				arc	lamp									
Light			1/25	> 5	4-5	perspration-light		Acid		1/6	5			
			1/6	> 5	> 5			alkaline			5			
			1/3	> 5	> 5	Wet --light					5			
			Dyeing dept	Color change	staining on					Dyeing dept	Color change	staining on		
					cotton	wool						cotton	wool	
Washing	single		1/1	5	5	4-5	Bleaching	Hypo-chlorite		1/1	3-4	-	-	
	5 times			4-5	5	5		Peroxide				4-5		
Peroxide washing				4	5	5	Hot pressing	dry	immi- diately after 4 hrs		3-4 R		-	-
Chlorine washing														5
Water				5	5	4-5		wet						
Sea water				4-5	5	5	Dry cleaning				5	5	5	
Persprati on	Acid			5	5	5	Mercerizing				5	4-5	-	
	Alkaline			5	5	5	Acid Spotting	Acetic asid			5	-	-	
Chlorinated water		10 mg		3	-	-		Sulphuric acid			2-3	-	-	
		20 mg		2-3	-	-	Alkali spotting				5	-	-	
Chlorine in running water				3	-	-	Steam		color change		5	-	-	
Nitrogen oxides (strong)				3	-	-	Vulcanizing		Suitility		√	-	-	
Rubbing (wet)				-	3-4	-	Stability of dyed material				4-5	5	5	
During dyeing Staining on				Wool		2-3	Dischargea bility	Neutral			2-3			
			Acetate		2-3	Alkaline								
			Polyester		5	Solubility			25°C	80°C				
			Polyamide		2-3				No addition	150	> 150			
Acrylic		2-3	50 g/l Glaubers salt	> 100	-									
Fastness after fixing treatment (1/1 dyeing dept)		Light	> 5	10 g/l sodium carbonate	> 100				-					
		Perspration-light asit	-	25 ml/l Coustic soda										
Suitable application process			Exhaust		√√	Cold pad batch		√√	Printing		√			
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Fastness properties			Exhaust dyeing		Unmercerized cotton knit			1/1: 3,0 % o.w.f.					
			Dyeing dept	Assesment					Dyeing dept	Assesment			
				carbon	Xenon								
				arc	lamp								
Light			1/25	4-5	4	perspration-light	Acid		1/6	4			
			1/6	5	4-5		alkaline			4			
			1/3	> 5	4-5	Wet --light				4-5			
			Dyeing dept	Color change	staining on					Color change	staining on		
					cotton	wool					cotton	wool	
Washing	single		1/1	4-5	4-5	5	Bleaching	Hypo-chlorite		1/1	1	-	-
	5 times			4-5	4-5	5		Peroxide			3-4	4-5	5
Peroxide washing		4-5		4-5	5	Hot pressing	dry	immi- diately	4		-	-	
Chlorine washing		4		4	4			after 4 hrs	5		-	-	
Water		4-5		4-5	4-5		wet		4-5				
Sea water		4-5		4-5	4-5		Dry cleaning		4-5		4-5	4-5	
Persprati on	Acid			4-5	4-5	4-5	Mercerizing				5	4-5	-
	Alkaline			4-5	4-5	4-5	Acid Spotting	Acetic asid			4-5	-	-
Chlorinated water		10 mg		3	-	-		Sulphuric acid			1	-	-
		20 mg		2-3	-	-	Alkali spotting		3-4		-	-	
Chlorine in running water				1-2	-	-	Steam		color change		4-5	-	-
Nitrogen oxides (strong)				3-4	-	-	Vulcanizing		Suitility		√	-	-
Rubbing (wet)			-	3-4	-	Stability of dyed material			4-5	4-5	4		
During dyeing Staining on			Wool		2-3	Dischargea bility	Neutral		1-2				
			Acetate		1-2		Alkaline					2	
			Polyester		3-4	Solubility			25°C	80°C			
			Polyamide		2-3				No addition		100	100	
Acrylic		3-4	50 g/l Glauber salt		80		-						
Fastness after fixing treatment (1/1 dyeing dept)			Light		5		10 g/l sodium carbonate		80	-			
			Perspration-light asit		4-5	25 ml/l Coustic soda							
Suitable application process			Exhaust		√√	Cold pad batch		√√	Printing		√		
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MEKSA

Karaduvar Serbest Bölge Mahallesi, Serbest Bölge Bulvarı, No: 32/A Akdeniz-Mersin

Tel: +90 324 232 34 11, +90 324 237 55 26

Web: <http://www.meksakimya.com.tr>

