












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				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	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	Assesent					Dyeing dept	Assesent			
			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 bibility	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	X	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 arc	Xenon 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				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	80°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	vv	Cold pad batch	vv	Printing	vv					
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Fastness properties		Exhaust dyeing		Unmercerized cotton knit		1/1: 4,0 % o.w.f.					
		Dyeing dept	Assesent				Dyeing dept	Assesent			
			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				Color change	staining on		
				cotton	wool	cotton	wool				
Washing	single	1/1	5	4-5	5	Bleaching	Hypo-chlorite		4-5	-	-
	5 times		5	4-5	5		Peroxide		4-5	-	-
Peroxide washing			5	5	5	Hot pressing	dry	immi- diately after 4 hrs	4-5	-	-
Chlorine washing			4	5	5				wet		5
Water			5	5	5				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	√	-	-	
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	√√	Cold pad batch	√√	Printing	√				

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Fastness properties		Exhaust dyeing		Unmercerized cotton knit		1/1: 4,0 % o.w.f.						
		Dyeing dept	Assessent				Dyeing dept	Assessent				
			carbon	Xenon				Color change	staining on			
			arc	lamp					cotton	wool		
Light	1/25	4-5	4	perspration-light	Acid	1/6	3					
	1/6	4-5	4				alkaline	2-3				
	1/3	4-5	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	4	Bleaching	Hypo-chlorite		1/1	4-5	-	-
	5 times		4-5	4	4		Peroxide			4-5	5	5
Peroxide washing			4-5	4-5	5	Hot pressing	dry	immi- diately		1-2	-	-
Chlorine washing			4-5	4-5	4-5			after		4 hrs	5	-
Water			5	4-5	4-5		wet			4	-	-
Sea water			4	4	5	Dry cleaning		5		-	-	
Persprati on	Acid		4	4	4-5	Mercerizing		4		3	-	
	Alkaline		4	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		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		4-5		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	vv	Cold pad batch	vv	Printing	vv					
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Fastness properties		Exhaust dyeing		Unmercerized cotton knit		1/1: 4,0 % o.w.f.						
		Dyeing dept	Assessent				Dyeing dept	Assessent				
			carbon arc	Xenon 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				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 after 4 hrs		1-2	-	-
Chlorine washing			5	5	5			wet		5	-	-
Water			5	4-5	5					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		> 100	-					
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	Assesent				Dyeing dept	Assesent				
			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				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	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	Assessent				Dyeing dept	Assessent				
			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				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	5	
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	4	
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	Assessent				Dyeing dept	Assessent				
			carbon arc	Xenon 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				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					
Peroxide washing			4-5	4-5	5	Hot pressing	dry	immi- diately after 4 hrs		3-4	-	-
Chlorine washing			4	4	4					wet	5	-
Water			5	4-5	4-5		Dry cleaning				4-5	-
Sea water			4-5	5	5		Mercerizing			5	-	-
Persprati on	Acid		4-5	4-5	4-5	Acid Spotting	Acetic asid			4	4-5	-
	Alkaline		4-5	4-5	5		Sulphuric acid			5	-	-
Chlorinated water			10 mg	4	-	-	Alkali spotting			2-3	-	-
			20 mg	3-4	-	-				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	Assesent				Dyeing dept	Assesent				
			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	4-5	-	-
Chlorine washing			4	4	5				after	4 hrs	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	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	vv	Cold pad batch	vv	Printing	vv					
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Fastness properties		Exhaust dyeing		Unmercerized cotton knit		1/1: 4,0 % o.w.f.						
		Dyeing dept	Assesent				Dyeing dept	Assesent				
			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		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		4-5	-	-
Chlorine washing			-	-	-			after 4 hrs		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	vv	Cold pad batch	vv	Printing	vv					

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Fastness properties		Exhaust dyeing		Unmercerized cotton knit		1/1: 4,0 % o.w.f.						
		Dyeing dept	Assessent				Dyeing dept	Assessent				
			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	4	-	-
Chlorine washing			3	4	4				after 4 hrs	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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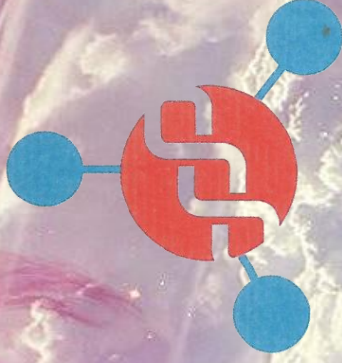
Fastness properties		Exhaust dyeing		Unmercerized cotton knit		1/1: 4,0 % o.w.f.						
		Dyeing dept	Assessent				Dyeing dept	Assessent				
			carbon	Xenon								
			arc	lamp								
Light		1/25	> 5	4-5	perspration-light	Acid		1/6	5			
		1/6	> 5	> 5		alkaline			5			
		1/3	> 5	> 5	Wet -light		5					
		Dyeing dept	Color change	staining on				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										wet	5	-
Water			5	5	4-5	Dry cleaning		5			5	5
Sea water			4-5	5	5	Mercerizing		5		4-5	-	
Persprati on	Acid		5	5	5	Acid Spotting	Acetic asid			5	-	-
	Alkaline		5	5	5		Sulphuric acid			2-3	-	-
Chlorinated water			10 mg	3	-	Alkali spotting		5		-	-	
			20 mg	2-3	-	Steam		5		-	-	
Chlorine in running water				3	-	color change		5		-	-	
Nitrogen oxides (strong)				3	-	Vulcanizing		√		-	-	
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		2-3				
		Polyester		5	Solubility			25°C	80°C			
		Polyamide		2-3		No addition		150	> 150			
		Acrylic		2-3		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		> 100	-				
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 after 4 hrs	4	-	-
Chlorine washing			4	4	4					wet	5	-
Water			4-5	4-5	4-5				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	-	-		Alkali spotting		Sulphuric acid	1	-	-
	20 mg		2-3	-	-				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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