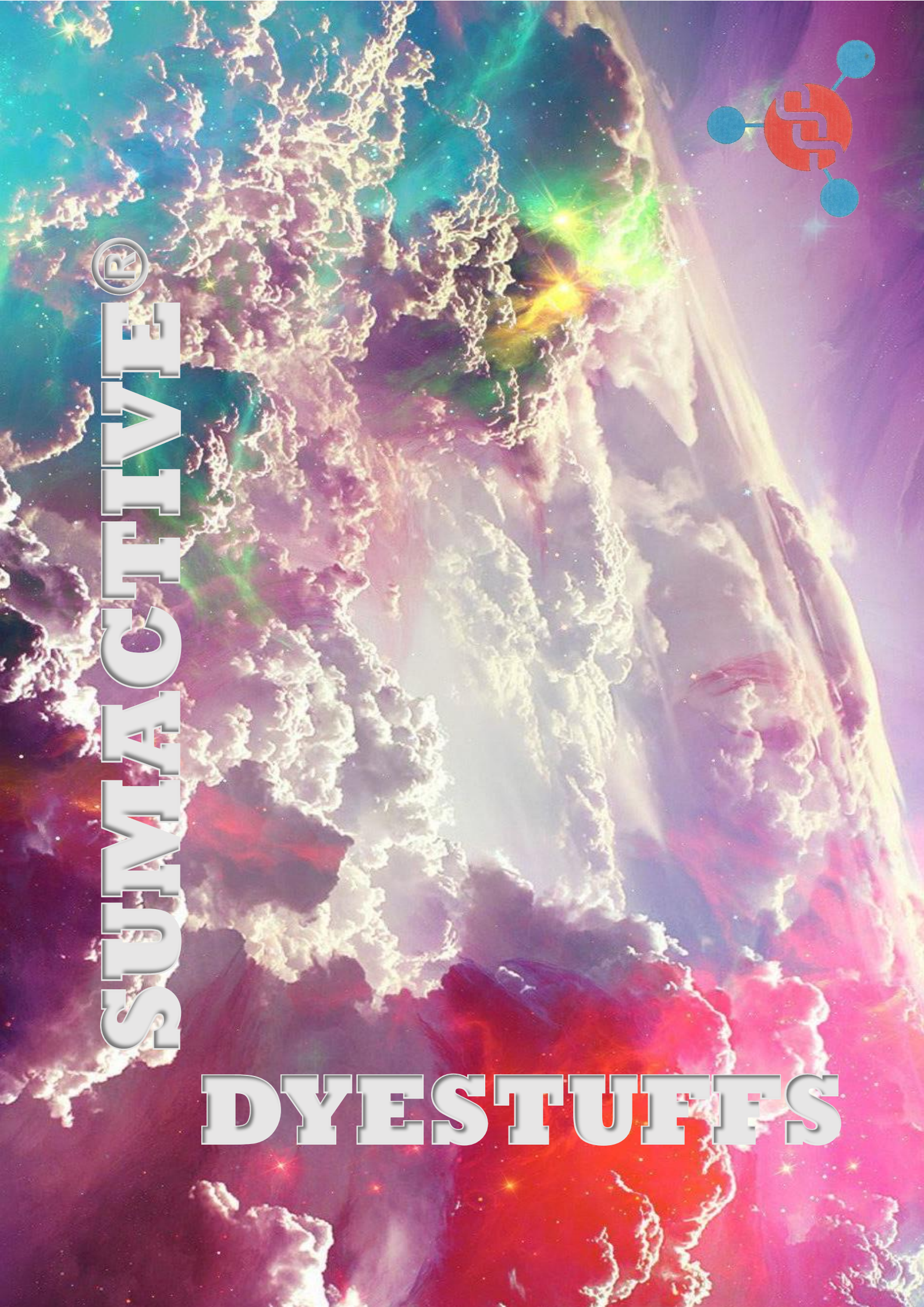
SUMACTIVE®
DYESTUFFS

MEKSA SUMACTIVE BI-FUNCTIONAL DYES

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. *Recommended for pale green shades in combination with **Sumactive Turquoise Blue BGF(N)**.*
Lemon Yellow EXF		2,0	**Brilliant lemon yellow dye** for vivid shades**,** *In case of bright greens: to be used in combination with **Sumactive Turquoise Blue GN 266%**.*
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: pale to deep shades*. Light, fast and dischargeable
Br.Red 3BF 150%		2,0	**Standard red dye**, with good wash off properties, *recommended for all trichromatic combinations.*
Red EXF		2,0	**Red dye** *for standard trichromatic combinations: pale to medium shades. Also recommended for all red and orange shades.*
Red GF 150%		2,0	**Brilliant red shade** with good light fastness *recommended for pale to medium shades*; 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, *recommended for vivid red, scarlet and orange shades*.
Blue BRF 150%		2,0	Excellent leveling & light fastness *for trichromatic dyeing & blue shades*.
Blue EXF		2,0	**Blue dye** *for standard trichromatic combinations: pale to medium shades*
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: medium to deep shades.*
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	*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.

MEKSA SUMACTIVE YELLOW 3GF 150%

Fastness properties	*Exhaust dyeing*			*Unmercerized cotton knit*		*1/1: 4,0 % o.w.f.*		
	Dyeing dept	Assessent carbon arc	Assessent Xenon lamp			Dyeing dept	Assessent	
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 cotton	staining on wool				Color change	staining on cotton	staining on wool
Washing	single	1/1	5	5	5	Bleaching	Hypo-chlorite		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	√√	

MEKSA SUMACTIVE LEMON YELLOW EXF

Fastness properties	*Exhaust dyeing*			*Unmercerized cotton knit*		*1/1: 4,0 % o.w.f.*		
	Dyeing dept	Assessent carbon arc	Assessent Xenon lamp			Dyeing dept	Assessent	
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 cotton	staining on wool			Color change	staining on cotton	staining on wool
Washing single	1/1	5	5	5	Bleaching	Hypo-chlorite	3	-	-
Washing 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		dry 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	-	-
Perspration Acid		5	5	4	Mercerizing		4-5	4-5	-
Perspration Alkaline		5	5	4	Acid Spotting	Acetic asid	4	-	-
Chlorinated water 10 mg		4	-	-		Sulphuric acid	3	-	-
Chlorinated water 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		
During dyeing Staining on Acetate				3-4		Alkaline	3		
During dyeing Staining on Polyester				5	Solubility		25°C	80°C	
During dyeing Staining on Polyamide				3-4		No addition	100	> 100	
During dyeing Staining on Acrylic				5		50 g/l Glauber salt	70	-	
Fastness after fixing treatment (1/1 dyeing dept) Light				5		10 g/l sodium carbonate	-	-	
Fastness after fixing treatment (1/1 dyeing dept) Perspration-light asit				4		25 ml/l Coustic soda			
Suitable application process		Exhaust		√√	Cold pad batch	X	Printing	√	

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MEKSA SUMACTIVE YELLOW 3RF 150%

Fastness properties	*Exhaust dyeing*			*Unmercerized cotton knit*		*1/1: 4,0 % o.w.f.*		
	Dyeing dept	Assessent carbon arc	Assessent Xenon lamp			Dyeing dept	Assessent	
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 cotton	staining on wool			Color change	staining on cotton	staining on wool
Washing single	1/1	5	4-5	5	Bleaching	Hypo-chlorite	4-5	-	-
Washing 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		dry after 4 hrs	5	-	-
Water		5	5	5		wet	4	-	
Sea water		5	5	5	Dry cleaning		4	-	-
Perspration Acid		5	5	5	Mercerizing		3-4	5	-
Perspration Alkaline		4	4	4	Acid Spotting	Acetic asid	5	-	-
Chlorinated water 10 mg		4	-	-		Sulphuric acid	1	-	-
Chlorinated water 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		√√	Cold pad batch		√√	Printing		√√

MEKSA SUMACTIVE YELLOW EXF

Fastness properties	*Exhaust dyeing*			*Unmercerized cotton knit*		*1/1: 4,0 % o.w.f.*		
	Dyeing dept	Assessent carbon arc	Assessent Xenon lamp			Dyeing dept	Assessent	
Light	1/25	> 5	5	perspration-light	Acid		4	
	1/6	> 5	> 5		alkaline	1/6	4	
	1/3	> 5	> 5	Wet --light			5	
	Dyeing dept	Color change	staining on cotton	staining on wool			Color change	staining on cotton	staining on wool
Washing single	1/1	5	4-5	5	Bleaching	Hypo-chlorite	4-5	-	-
Washing 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		dry 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	-
Persprati on Alkaline		5	4	5	Acid Spotting	Acetic asid	4-5	-	-
Chlorinated water 10 mg		4-5	-	-		Sulphuric acid	1	-	-
Chlorinated water 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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MEKSA SUMACTIVE BR. RED 3BF 150%

Fastness properties		*Exhaust dyeing*			*Unmercerized cotton knit*			*1/1: 4,0 % o.w.f.*		
		Dyeing dept	Assessent: carbon arc	Assessent: Xenon lamp				Dyeing dept	Assessent	
Light		1/25	4-5	4	perspration-light	Acid			3	
		1/6	4-5	4		alkaline		1/6	2-3	
		1/3	4-5	4-5	Wet --light				4-5	
		Dyeing dept	Color change	staining on: cotton	staining on: wool				Color change	staining on: cotton	staining on: 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		dry: 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			√√	Cold pad batch		√√	Printing		√√

MEKSA SUMACTIVE RED EXF

Fastness properties	*Exhaust dyeing*			*Unmercerized cotton knit*		*1/1: 4,0 % o.w.f.*		
	Dyeing dept	Assessent carbon arc	Assessent Xenon lamp			Dyeing dept	Assessent	
Light	1/25	**4-5**	**3-4**	perspration-light	Acid		**3**	
	1/6	**5**	**4**		alkaline	1/6	**2-3**	
	1/3	**5**	**4-5**	Wet --light			**4-5**	

		Dyeing dept	Color change	staining on cotton	staining on wool				Color change	staining on cotton	staining on wool
Washing	single	1/1	**4-5**	**5**	**5**	Bleaching	Hypo-chlorite		**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	√	

MEKSA SUMACTIVE RED GF 150%

Fastness properties		*Exhaust dyeing*			*Unmercerized cotton knit*		*1/1: 4,0 % o.w.f.*		
		Dyeing dept	Assessent carbon arc	Assessent Xenon lamp			Dyeing dept	Assessent	
Light		1/25	**4-5**	**3-4**	perspration-light	Acid		**3-4**	
		1/6	**5**	**4-5**		alkaline	1/6	**3**	
		1/3	**5**	**5**	Wet --light			**4-5**	
		Dyeing dept	Color change	staining on cotton	staining on wool			Color change	staining on cotton	staining on wool
Washing	single	1/1	**4-5**	**5**	**5**	Bleaching	Hypo-chlorite	**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**		dry 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	√	

MEKSA SUMACTIVE RED LF

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**	**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**		dry after 4 hrs		**5**	-	-
Water			**4-5**	**4-5**	**5**		wet		**4**	-	-
Sea water			**4**	**4-5**	**5**	Dry cleaning			**5**	-	-
Perspration	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**	Dischargeability	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	√	

MEKSA SUMACTIVE SCARLET 2GF 150%

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

MEKSA SUMACTIVE BLUE BRF 150%

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	**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		**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	√	

MEKSA SUMACTIVE BLUE EXF

Fastness properties		*Exhaust dyeing*			*Unmercerized cotton knit*			*1/1: 4,0 % o.w.f.*		
		Dyeing dept	Assessent: carbon arc	Assessent: Xenon lamp				Dyeing dept	Assessent	
Light		1/25	4-5	4	perspration-light	Acid			4	
		1/6	5	4-5		alkaline		1/6	3-4	
		1/3	5	4-5	Wet --light				4	
		Dyeing dept	Color change	staining on: cotton	staining on: wool				Color change	staining on: cotton	staining on: 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		dry: after 4 hrs		5	-	-
Water			5	4-5	4-5		wet		4-5	-	
Sea water			4-5	5	5	Dry cleaning			5	-	-
Perspration	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	Dischargeability	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		√

MEKSA SUMACTIVE NAVY BLUE BF

Fastness properties		*Exhaust dyeing*			*Unmercerized cotton knit*			*1/1: 4,0 % o.w.f.*		
		Dyeing dept	Assessent carbon arc	Assessent Xenon lamp				Dyeing dept	Assessent	
Light		1/25	**4-5**	**3-4**	perspration-light		Acid		**3**	
		1/6	**5**	**4**			alkaline	1/6	**3**	
		1/3	**5**	**4-5**	Wet --light				**4**	
		Dyeing dept	Color change	staining on cotton	staining on wool				Color change	staining on cotton	staining on 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**		dry 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			√√	Cold pad batch		√√	Printing		√√

MEKSA SUMACTIVE MARINE SPX

Fastness properties	*Exhaust dyeing*			*Unmercerized cotton knit*		*1/1: 4,0 % o.w.f.*	
	Dyeing dept	Assessent carbon arc	Assessent Xenon lamp			Dyeing dept	Assessent
Light	1/25	3	3	perspration-light	Acid		3
	1/6	4-5	3-4		alkaline	1/6	3
	1/3	4-5	4-5	Wet --light			3

		Dyeing dept	Color change	staining on cotton	staining on wool				Color change	staining on cotton	staining on wool
Washing	single	1/1	5	4-5	4-5	Bleaching	Hypo-chlorite		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	√√	Cold pad batch	√√	Printing	√√

MEKSA SUMACTIVE TURQUOISE BLUE BGF(N)

Fastness properties		*Exhaust dyeing*			*Unmercerized cotton knit*			*1/1: 4,0 % o.w.f.*		
		Dyeing dept	Assessent carbon arc	Assessent Xenon lamp				Dyeing dept	Assessent	
Light		1/25	**3-4**	**3-4**	perspration-light		Acid		**3**	
		1/6	**4**	**3-4**			alkaline	1/6	**3**	
		1/3	**4-5**	**4**	Wet --light				**3-4**	
		Dyeing dept	Color change	staining on cotton	staining on wool				Color change	staining on cotton	staining on 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**		dry 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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MEKSA SUMACTIVE BR. BLUE R. SPECIAL

Fastness properties	*Exhaust dyeing*			*Unmercerized cotton knit*		*1/1: 4,0 % o.w.f.*		
	Dyeing dept	Assessent: carbon arc	Assessent: Xenon lamp			Dyeing dept	Assessent	
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: cotton	staining on: wool				Color change	staining on: cotton	staining on: wool
Washing: single	1/1	5	5	4-5	Bleaching	Hypo-chlorite		3-4	-	-
Washing: 5 times		4-5	5	5		Peroxide		4-5		
Peroxide washing		4	5	5	Hot pressing	dry	immi-diately	3-4 R	-	-
Chlorine washing							after 4 hrs	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	-
Persprati on: Alkaline		5	5	5	Acid Spotting	Acetic asid		5	-	-
Chlorinated water: 10 mg		3	-	-		Sulphuric acid		2-3	-	-
Chlorinated water: 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	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	

Suitable application process	Exhaust	√√	Cold pad batch	√√	Printing	√

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MEKSA SUMACTIVE OCEAN BLUE S

Fastness properties	*Exhaust dyeing*	*Unmercerized cotton knit*	*1/1: 3,0 % o.w.f.*

	Dyeing dept	Assessent: carbon arc	Assessent: Xenon lamp
Light	1/25	4-5	4
	1/6	5	4-5
	1/3	> 5	4-5

		Dyeing dept	Color change	staining on: cotton	staining on: wool
Washing	single	1/1	4-5	4-5	5
	5 times		4-5	4-5	5
Peroxide washing			4-5	4-5	5
Chlorine washing			4	4	4
Water			4-5	4-5	4-5
Sea water			4-5	4-5	4-5
Persprati on	Acid		4-5	4-5	4-5
	Alkaline		4-5	4-5	4-5
Chlorinated water	10 mg		3	-	-
	20 mg		2-3	-	-
Chlorine in running water			1-2	-	-
Nitrogen oxides (strong)			3-4	-	-
Rubbing (wet)			-	3-4	-

During dyeing Staining on	Wool	2-3	
	Acetate	1-2	
	Polyester	3-4	
	Polyamide	2-3	
	Acrylic	3-4	
Fastness after fixing treatment (1/1 dyeing dept)	Light	5	
	Perspration-light asit	4-5	

			Dyeing dept	Color change	staining on: cotton	staining on: wool
Perspration-light	Acid		1/6	4		
	alkaline			4		
Wet --light				4-5		
Bleaching	Hypo-chlorite		1/1	1	-	-
	Peroxide			3-4	4-5	5
Hot pressing	dry	immi-diately		4	-	-
		after 4 hrs		5	-	-
	wet			4-5		
Dry cleaning				4-5	4-5	4-5
Mercerizing				5	4-5	-
Acid Spotting	Acetic asid			4-5	-	-
	Sulphuric acid			1	-	-
Alkali spotting				3-4	-	-
Steam	color change			4-5	-	-
Vulcanizing	Suitility			√	-	-
Stability of dyed material				4-5	4-5	4

Dischargea bility	Neutral	1-2
	Alkaline	2
Solubility		25°C / 80°C
	No addition	100 / 100
	50 g/l Glauber salt	80 / -
	10 g/l sodium carbonate	80 / -
	25 ml/l Coustic soda	

Suitable application process	Exhaust	√√	Cold pad batch	√√	Printing	√

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