



COLOURING SOLUTIONS

FOR POLYESTER

Jaylene®
Disperse Dyes



ABOUT US

JAY CHEMICAL INDUSTRIES PRIVATE LIMITED is an Indian company with a Global outlook and today one of the largest Reactive Dye stuff companies in the world. It's a fifty-six year legacy. What started as a dye and dye intermediate manufacturing company now has diversified interests in Textile Auxiliaries, Digital Textile Printing Inks, Construction Chemicals. In line with our vision, 1700 employees are working with dedication to serve customers in most of the textile centers around the World. We emphasize on sustainable approach towards the business.

Our Textile Solutions comprises of Jakazol®, Jakofix® Reactive dyes, OXXI.J® textile auxiliaries and Jaylene® Disperse dyes.

COLOURATION OF POLYESTER WITH JAYLENE® DISPERSE DYES

Jaylene® our classical disperse dye range for application on Polyester and its blends suitable for Exhaust, Continuous dyeing & Printing.

Jaylene® range of disperse dyes are mostly Azo and Anthraquinone base dyes belonging to various energy classes.

General properties

- Non-Ionic
- Water Dispersible
- Suitable for most synthetic fibers.

CLASSIFICATION

Jaylene® Luminous - Brilliant dyes

- Suitable for fashion shades and high visibility clothing
- Good all-round fastness

Jaylene® S dyes – High energy

- Wide range with high sublimation fastness
- High build-up
- Suitable for high temperature Exhaust dyeing and Thermosol dyeing
- Suitable for print application by pressure steam and high temperature steam.

Jaylene® SE dyes – Medium energy

- Good levelling dyestuffs
- Moderate sublimation fastness
- Suitable for Exhaust dyeing and selectively for Thermosol application

Jaylene® E Dyes – Low energy

- Excellent levelling properties with good barre coverage for difficult fabrics
- Limited sublimation fastness
- Suitable for piece dyeing application

PRE-TREATMENT

Polyester substrates contain spin finishes or knitting oils which must be removed in processing. We recommend to pre-scour the material using OXXI.J® Auxiliaries.

- 1-2 g/l OXXI.J® CS 2500
- 1-2 g/l Soda Ash

Temperature & Time: 60°C-70°C for 15-20 min followed by Neutralisation. Woven and knit goods should be heat set after scouring.

Preparation of dyestuff

- Jaylene® Disperse dyes are in a finely dispersed form aiding rapid & easy dissolution of dyes.
- Add the required quantity of dyestuff to soft water (10 to 15 times its volume) maintained at 40°C-45°C.
- Stir well the dyestuff until fully dispersed.
- Recommend adding dispersing agent which will enhance the dissolution and dispersion.
- Filter the dye dispersion before addition to the dye bath.

Factors For Dye Selection

- Economy
- Fastness requirements
- Level dyeing and barre control
- Stability at high temperature
- Dispersion, especially for package dyeing

High energy dyes are recommended for High fastness requirements like fastness to washing and dry heat setting, especially for dark shades.

Note: High, medium and low energy dyes can be combined depending on the working condition, unique shade requirements, material to be dyed and fastness specifications.

Application Methods

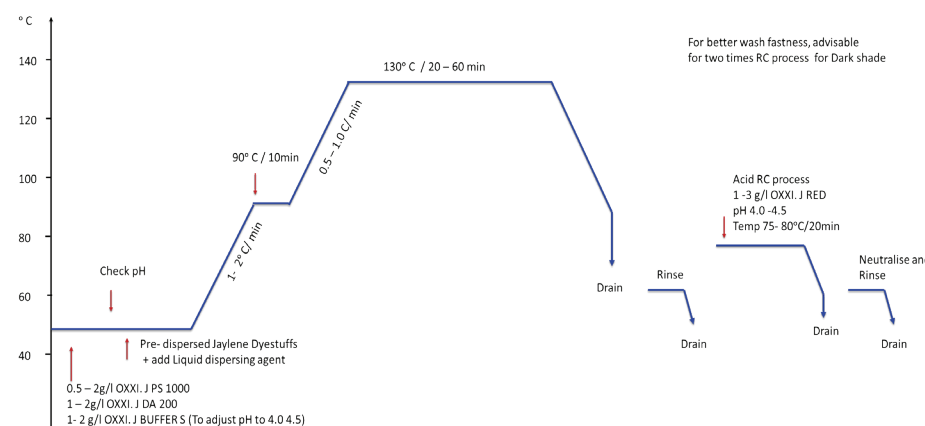
- Exhaust - HT Dyeing
 - Standard Dyeing Method
 - Sensitive Shades Dyeing Method
- Carrier Dyeing
- Thermosol Dyeing (continuous application)
- Printing Application
 - Direct Printing
 - Discharge Printing

Exhaust - HT Dyeing

Polyester in forms of loose Fibres, Yarn and Piece goods can be dyed by Exhaust HT Dyeing.

Standard Dyeing Method

Note: Reduction process on dyed goods can be Done either by Alkaline or Acid Reduction clearance process.

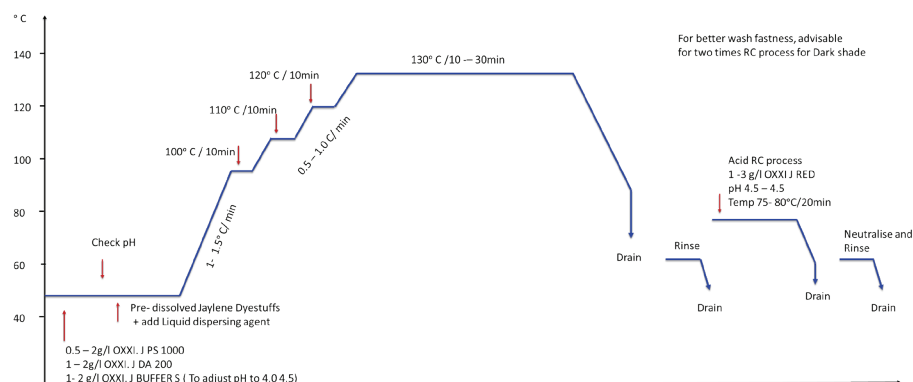


Sensitive Shade Dyeing Method

These dyestuffs require special dyeing process to achieve a level dyeing

- Jaylene Luminous Yellow 10GN
- Jaylene Luminous Pink 5BN
- Jaylene Red 2BN 150%
- Jaylene Red BF H/C
- Jaylene Violet 3R Conc
- Jaylene Brilliant Blue SR
- Jaylene Brilliant Blue DBR Conc
- Jaylene Red Violet FBL 200%
- Jaylene Brilliant Blue GSL 400%
- Jaylene Blue SE2R / Blue 2R Conc

Note: Reduction process on dyed goods can be Done either by Alkaline or Acid Reduction clearance process.

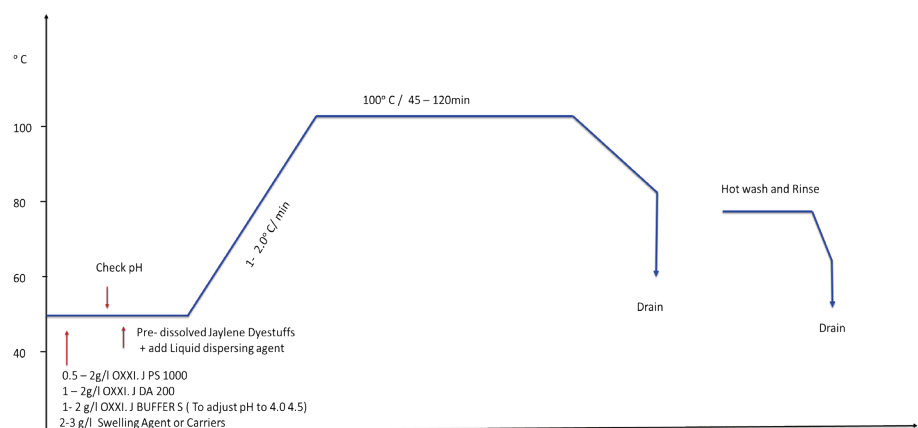


Carrier Dyeing

Jaylene® E class dyes are mainly recommended for dyeing of polyester at boil in the presence of a suitable carrier/swelling agent up to medium depth.

The information and recommendation for the Jaylene® dyestuffs suitability dyeing at boil is provided in the illustration section "Carrier dyeing at 100°C". This process is not preferred and as lost its importance in the industry due to ecological and quality advantage of dyeing at high temperatures.

Note: LIMITATION TO DYE DARK SHADE AND REDUCTION CLEARANCE PROCESS DEPENDS UPON THE FASTNESS PROTOCOL.



Thermosol Dyeing

Jaylene® S Class and selective Jaylene® SE class dyestuff are suitable for pad-thermosol application on polyester and its blends.

PAD LIQUOR COMPOSITION

X g/l	Jaylene (Refer Preparation of dyestuff)
10-20 g/l	OXXI.J AM 1000
1-2 g/l	OXXI.J CS 2000
0.5-2.0 g/l	Citric or acetic acid or OXXI.J Buffer S (To adjust pH to 4.5 to 5.0)
1-2 g/l	Mild Oxidising agent (if required)

Process → Pad above recipe → Dry at 100°C-120°C/60-90 sec → Thermosol at 190°C-210°C for 30-60 sec → Reduction Clearing @ 70°C-80°C/20 min → Hot & Cold wash, Neutralise with Acetic Acid. Pad liquor temperature must be below 40°C and pick-up expression maintained at 50% - 80% depending upon the fabric quality and GSM. We recommend to maintain a low pick-up to minimize risk of migration. Pre-dry at 100°C-120°C with 25-30% residual moisture, followed by thermosolling at 190°C-210°C for 30-60Sec. It is essential to remove the unfixed dye by reduction clearing.

Note: Pad liquor composition may change as per nature of substrate, liquor pick-up, Padding Mangle hardness & Pressure profile. Pre-trials may be required for thermosol dyeing method.



Printing Application

Jaylene® S class dyes are best suited for printing, selective Jaylene® E & SE dyes are recommended in printing (For more details refer to shade card).

Direct Printing

Recipe	High Pressure Steaming	Superheated Steaming (HT steaming)
Jaylene Dyestuff	X Parts	X Parts
Suitable Thickner (5-8%)	Y Parts	Y Parts
Citric Acid/ OXXI.J buffer S	pH-4.0-4.5	pH-4.0-4.5
Mild Oxidising agent (add if needed)	2 Parts	2 Parts
Anti-Frothing agent	5-10 Parts	5-10 Parts
OXXI.J LA-P	-----	3-5 Parts
Water	Z Parts	Z Parts
Total	1000 Parts	1000 Parts
Jaylene E Class	Some selective dyes (pre-lab trial required)	NS
Jaylene SE Class	Suitable	Some selective dyes (pre-lab trial required)
Jaylene S Class	Suitable	Suitable

Fixation of Prints

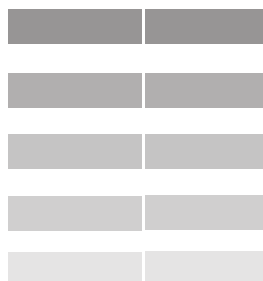
- High Pressure Steaming at 30 psi/130°C for 30 Mins in pressure ager.
- Superheated Steaming at 165°C – 175°C for 8-6 Min

Fixation conditions depending upon the type of dye class. Recommend Pre-trial to ensure optimum result.

Discharge Printing

PADDING FOR DISCHARGEABLE PRINT

Jaylene® dyes with dischargeable rating D (Please refer the shade card) are suitable for discharge printing. The rating D implies that these Jaylene dyes are suitable as base colour and thus fully dischargeable.



Preparation of Discharge Print Paste

Recipe	White Discharge	Colour Discharge (Method-1)	Colour Discharge (Method-2)
Non-Dischargeable Jaylene dyestuff	----	X Parts	X Parts
Zn-Sulphoxylate Formaldehyde	120-200 Parts	----	----
Na-Sulphoxylate Formaldehyde	----	100-120 Parts	----
Stannous Chloride	----	----	40-60 Parts
OXXI.J PRINT Jg	10-20 Parts	10-20 Parts	10-20 Parts
OXXI.J LA-P	-----	3-5 Parts	3-5 Parts
Critic Acid/ OXXI.J Buffer S	----	Adjust pH to 4.5	Adjust pH to 4.5
Suitable Thickener (5-8%)	Y Parts (7.0 pH)	Y Parts (pH 4.0-4.5)	Y Parts (pH 4.0-4.5)
Total	1000 Parts	1000 Parts	1000 Parts

Print – Dry at 105°C – 110°C and carry out fixation by any method mentioned under direct printing method. It is essential to remove the unfixed dye by reduction clearing.

After Treatment

After treatment of dyed or printed fabric across the shade requires, thorough rinsing to achieve desired fastness needs. For Pale to Medium shades, we recommend thorough rinsing. Dark to heavy shades thorough rinsing has to be followed by Reduction clearing.

This improves the brightness of the shade and fastness properties.

Alkaline Reduction Clearance Process

2-3 g/l	Caustic Soda Flakes
2-3 g/l	Sodium Hydrosulphite (Hydro's)
0.3-0.5 g/l	OXXI.J DA 200

Treat at 75°C - 80°C for 20-30 min and neutralise with acetic acid

Acid Reduction Clearance Process

1-3 g/l	OXXI.J RED
Xml	Acetic Acid (Adjust pH to 4.5)

Treat at 75°C - 80°C for 20-30 min, then rinse thoroughly

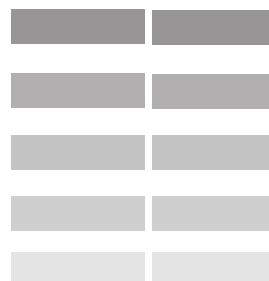




Auxiliaries for complete polyester processing

NOTE: - DILUTE AUXILIARIES WITH WATER BEFORE ADDITION TO THE DYEBATH

PRODUCT NAME	APPLICATION AREA	FEATURES
OXXI.J WS 100	Stain Remover	Solvent based wetting agent with stain removing property for polyester
OXXI.J CS 2500	Scouring Agent	Universal low-foaming detergent which emulsifies the oil & grease on the polyester substrate
OXXI.J SQ 500	Sequestering Agent	Sequestering agent with excellent chelation action on calcium, magnesium, iron, and copper
OXXI.J LUB 20	Lubricating Agent	Effective crease inhibitor, ensures crease free fabric
OXXI.J PS 1000	Levelling Agent	Excellent levelling agent for polyester based on retarding chemistry
OXXI.J L-PES	Levelling Agent	Multi-functional product for dispersing and levelling of Disperse dyes
OXXI.J DA 200	Dispersing Agent	Keeps the dye molecule in dispersed form and prevents agglomeration
OXXI.J PS 2000	Oligomer Control	Levelling cum Oligomer controlling agent
OXXI.J AM 1000	Anti-Migrating Agent	Prevent migration of dyes
OXXI.J CS 2000	Deaerating Agent	Wetting and Deaerating agent for pad batch process
OXXI.J LA-P	Loop Accelerator	Enhances colour yield in printing
OXXI.J Print Jg	Penetrating Agent for Printing	Ensure even penetration of dyes
OXXI.J BUFFER S	Acid Buffer for Polyester	Multipurpose auxiliary for dyeing and printing of Disperse dyes on Polyester and its blends
OXXI.J Red	Reduction Clearing agent	High performance Acid Reduction clearing agent for polyester dyeing
OXXI.J SOFT HWP	Softener	Hydrophilic hand-feel modifier for polyester with static properties



Fastness Properties

The wet fastness properties of 1/1 RSD Jaylene disperse dyes is tested on 100 % polyester Tex-Tex fabric dyed@130°C after reduction clear treatment and assessed with grey scale for “change of shade and staining” as per ISO and AATCC test method.

Colour fastness to Light – AATCC 16 Option 3 (20 AFU) & ISO 105 B02

Colour fastness to light is tested on 1/1 RSD dyeing exposed to xenon light as per test method below, Rating (AATCC 16 option 3 - 20 AFU): From 1 – 5, 1 is for the least and 5 for the highest light fastness. Rating (ISO) : From 1-8, 1 is for least and 8 is for the highest light fastness.

Colour Fastness to Dry Heat – (ISO 105 P 01)

Colour fastness to Dry heat contact (sublimation Fastness) of 1/1 RSD dyed fabric at 180°C for 30 seconds. Rating of 1-5 as per staining on polyester.

Colour Fastness to Washing – (ISO 105 C10: C 600C)

- 5 g/l soap • 2 g/l Soda Ash • Time & Temperature - 60°C for 30 min
- Staining on PES, PA, Cotton (multifibre) are assessed as 1 to 5 on grey scale

Colour Fastness to Washing - (AATCC 61, 2A, 49°C)

- 2g/l AATCC Standard Detergent WOB
- Time & Temperature - 49°C for 45 min.
- Staining on PES, PA, Cotton (multifibre) are assessed as 1 to 5 on grey scale

Colour Fastness to Perspiration – (ISO 105 E04)

Colour fastness to perspiration in Acidic and alkaline fastness measured as per the procedure specified. Staining on PES, PA and Cotton have been assessed as 1 to 5 grey scale.

Colour Fastness to Rubbing (ISO 105 X-12)

Colour fastness to Rubbing (Dry and wet) fastness of 1/1 RSD dyeing assessed as 1 to 5 on grey scale.

Carbonising (70 % H2SO4)

- 1/1 RSD Polyester dyed substrate treated with 70% sulphuric acid •
- Time & Temperature - 25°C for 30 min. • Colour Difference is evaluated •

KEY TO ABBREVIATION:

CS	Change of Shade	D*	Not suitable for white ground dischargeable
PES	Staining on Polyester	G	Good
PA	Staining on Nylon	M	Moderate
CO	Staining on Cotton	S	Suitable
ND	Non- Dischargeable	LS	Limited Suitable
PD	Partially Dischargeable	NS	Not Suitable
D	Dischargeable	RSD	Reference Shade depth

Illustrations

1/3 and 1/1 RSD has been illustrated on 100% Polyester Tex-Tex fabric by exhaust dyeing process at 130°C

Disclaimer

The information and technical advice – whether verbal, in writing or by way of trials- are given in good faith but without warranty. Data and results are based on controlled or laboratory work and must be confirmed as satisfactory by the buyer by testing under intended conditions of use. This card supersedes all our previous publications.

COLOURING YOUR IMAGINATION



LUMINOUS RANGE

JAYLENE
DISPERSE
DYES

1/1 RSD

Luminous Yellow 10GN

	S CLASS	0.37%

Luminous Red G

	SE CLASS	1.50%

Luminous Pink RBSF

	S CLASS	1.50%

Luminous Pink 5BN

	E CLASS	1.00%

FASTNESS PROPERTIES									GENERAL PROPERTIES					
ISO 105 BO2 AATCC 16 Option 3, 20AFU		Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10:C at 60°C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability	Metal Ion Sensitivity	Levelling at 130°C
		PES	CS	CS	CS	CS	CS	CS	CS	Dry	CS		Iron	
			PES	PES	PES	PES	PES	PES	Wet	Copper				
			PA	PA	PA	PA	PA	PA						
			CO	CO	CO	CO	CO	CO					CO	
		CO		CO	CO	CO	CO	CO						

5-6	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-6	3-4	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			3	
		4-5	3-4	4-5	4-5	4-5	4-5	4-5			3	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			3	

4-5	2.5	4-5	4-5	4-5	4-5	4-5	4	4-5	2-3	4-6	4	M
		4-5	4-5	4-5	4-5	4-5	4-5				4	
		4	3-4	4-5	4-5	4-5	4-5				4	
		4-5	4-5	4-5	4-5	4-5	4-5				4	

4-5	2.5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4-6	3	G
		4-5	4-5	4-5	4-5	4-5	4-5				2-3	
		4-5	4	4-5	4-5	4-5	4-5				2-3	
		4-5	4-5	4-5	4-5	4-5	4-5				2-3	

6	3.5	4	4-5	4-5	4-5	4-5	4-5	4-5	3	3-7	4	M
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			3-4	
		3	2-3	3	4	4	4	4-5			3-4	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			3-4	

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/ 1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stanno us Chloride	

S	S	NS	200-210°C	S	S	ND	ND	ND	110-130°C
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M	S	NS	190-200°C	S	S	PD	PD	PD	110-130°C
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S	S	NS	200-210°C	S	S	ND	ND	ND	115-130°C
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NS	NS	LS	NS	NS	NS	ND	ND	ND	100-130°C
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FASTNESS PROPERTIES									GENERAL PROPERTIES					
ISO 105 B02 AATCC 16 Option 3, 20AFU		Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10°C at 60°C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability	Metal Ion Sensitivity	Levelling at 130°C
		PES	CS	CS	CS	PES	PES	PES	CS	Dry	CS	pH Stability	Iron	Copper
			PA	PA	PA	PA	PA	PA	Copper					
			CO	CO	CO	CO	CO	CO						

S, SE, E RANGE

JAYLENE
DISPERSE
DYES

1/3

1/1

RSD

Yellow SG H/C

		S CLASS
		1.60%

Yellow 4G 200%

		SE CLASS
		1.45%

Yellow 4GNL

		SE CLASS
		0.72%

Yellow C4G H/C

		SE CLASS
		1.80%

Yellow 3G 200%

		SE CLASS
		1.53%

Golden Yellow 2GD

		SE CLASS
		2.00%

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/ 1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stanno us Chloride	

S	S	NS	200-210°C	S	S	ND	D*	ND	110-130°C
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M	S	M	190-200°C	S	M	D	D	ND	110-130°C
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M	S	M	190-200°C	S	M	D	D	ND	110-130°C
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M	S	LS	190-200°C	S	S	D	D	D	100-130°C
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LS	M	S	NS	S	M	ND	ND	ND	110-120°C
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M	S	NS	190-200°C	S	S	D	D	D	110-130°C
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S, SE, E RANGE

JAYLENE
DISPERSE
DYES

1/3	1/1	RSD
-----	-----	-----

Yellow Brown 2RFL

		S CLASS
		2.00%

Yellow Brown 2RLS 150%

		S CLASS
		1.33%

Brown 3REL-N

		S CLASS
		1.35%

Brown 3RSF H/C

		S CLASS
		1.30%

Orange RL 200%

		E CLASS
		0.90%

Orange 3R 150%

		S CLASS
		1.00%

FASTNESS PROPERTIES								GENERAL PROPERTIES							
ISO 105 B02 AATCC 16 Option 3, 20AFU	Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10:C at 60°C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability	Metal Ion Sensitivity	Levelling at 130°C		
	PES	CS	CS	CS	CS	CS	CS	CS	Dry	CS	pH Stability	Iron			
		PES	PES	PES	PES	PES	PES	PES	Wet			Copper			
		PA	PA	PA	PA	PA	PA	PA							
	CO	CO	CO	CO	CO	CO	CO	CO							

6-7	5	5	5	5	5	5	4-5	4-5	4-5	4-5	3-7	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5					
		4-5	4-5	4-5	4-5	4-5	4-5	4-5					

6-7	5	5	5	5	5	5	4-5	4-5	4-5	4-5	3-7	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5					
		4-5	4-5	4-5	4-5	4-5	4-5	4-5					

5-6	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	3-7	4-5	G
		4	4-5	4-5	4-5	4-5	4-5	4				4-5	
		4	3-4	3	3	3-4							
		4-5	4-5	4-5	4-5	4-5							

5-6	4.5	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
		4	4	3-4	3-4	3-4							
		4-5	4-5	4-5	4-5	4-5							

6	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	4-5	G
		3	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
		4	3	4	4	4							
		4-5	4-5	4-5	4-5	4-5							

6	5	5	5	4-5	5	5	5	4-5	4-5	4-5	3-7	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
		4-5	4	4-5	4-5	4-5	4-5						
		4-5	4-5	4-5	4-5	4-5	4-5						

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/ 1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stanno us Chloride	

S	S	LS	200-210°C	S	S	D	D	D	100-130°C
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S	S	LS	200-210°C	S	S	D	D	D	100-130°C
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S	S	NS	190-200°C	S	S	D	D	D	110-130°C
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S	S	NS	200-210°C	S	S	D	D	D	110-130°C
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NS	LS	S	NS	NS	NS	D	D*	D*	100-130°C
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S	S	NS	200-210°C	S	S	D	D	D	100-130°C
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FASTNESS PROPERTIES										GENERAL PROPERTIES					
ISO 105 B02 AATCC 16 Option 3, 20AFU		Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10:1°C at 60°C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability		Metal Ion Sensitivity	Levelling at 130°C
		CS		CS	CS	CS	CS	CS	Dry	CS					
		PES	PES	PES	PES	PES	PES	Wet							
			PA	PA	PA	PA	PA								
			CO	CO	CO	CO	CO								

S, SE, E RANGE

JAYLENE DISPERSE DYES			RSD
1/3	1/1		

6	5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	4-5	G
		3	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
			4	3	4-5	4-5	4-5	4-5				4-5	
			4-5	4-5	4-5	4-5	4-5	4-5				4-5	

Scarlet 3R 150%

		E CLASS
		0.75%

6	5	4-5	5	4-5	5	4-5	4-5	4	4-5	4-5	3-7	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4				4-5	
			4	4	4-5	4-5	4	4				4-5	
			4-5	4-5	4-5	4-5	4-5	4-5				4-5	

Scarlet RR

		S CLASS
		1.90%

5-6	4	4-5	5	4-5	4-5	4-5	4-5	4	4-5	4-5	3-7	4-5	G
		4	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
			4	4	4-5	4-5	4-5	4-5				4-5	
			4-5	4-5	4-5	4-5	4-5	4-5				4-5	

Scarlet GS

		SE CLASS
		1.14%

5-6	4	4-5	5	5	5	5	5	4	4-5	4	3-7	3-4	G
		4	4-5	4-5	4-5	4-5	4-5	4-5				3	
			4	3-4	4-5	4-5	4-5	4-5				3	
			4-5	4-5	4-5	4-5	4-5	4-5				3	

Red BS

		S CLASS
		0.94%

6-7	5	5	5	4-5	5	5	5	4-5	4-5	4-5	3-7	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
			4-5	4	4-5	4-5	4-5	4-5				4-5	
			4-5	4-5	4-5	4-5	4-5	4-5				4-5	

Brilliant Red SRGL

		S CLASS
		2.00%

6-7	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	3-8	3	M
		2-3	4-5	4-5	4-5	4-5	4-5	4-5				2-3	
			3-4	3	4-5	4-5	4-5	4-5				2-3	
			4-5	4-5	4-5	4-5	4-5	4-5				2-3	

Red 2BN 150%

		E CLASS
		2.55%

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/ 1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stanno us Chloride	

NS	LS	S	NS	NS	NS	D	D	D	100-130°C
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S	S	M	190-200°C	S	S	D	D	D	100-125°C
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M	S	M	190-200°C	S	S	D	D	D	110-130°C
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S	S	NS	190-200°C	S	S	D	D	D	105-130°C
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S	S	NS	200-210°C	S	S	D	D	D	105-130°C
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NS	LS	S	NS	NS	NS	ND	ND	ND	105-130°C
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S, SE, E RANGE

JAYLENE
DISPERSE
DYES

1/3 1/1

RSD

FASTNESS PROPERTIES										GENERAL PROPERTIES					
ISO 105 B02 AATCC 16 Option 3, 20AFU		Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10°C at 60°C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability		Metal Ion Sensitivity	Levelling at 130°C
		PES	CS	CS	CS	CS	CS	CS	CS	Dry	CS	pH Stability	Iron		
			PA	PA	PA	PA	PA	PA	Wet	Copper					
			CO	CO	CO	CO	CO								

Red BF H/C

	E CLASS
	2.10%

6-7	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	3-8	3	M
		2-3	4-5	4-5	4-5	4-5	4-5	4-5			2-3	
			3-4	3	4-5	4-5	4-5					
			4-5	4-5	4-5	4-5	4-5					

Pink GREL 200%

	SE CLASS
	3.00%

6	5	4-5	5	4-5	5	5	5	4	4-5	3-8	3	M
		3-4	4-5	4-5	4-5	4-5	4-5	4			2-3	
			4	3-4	4	4	4					
			4-5	4-5	4-5	4-5	4-5					

Red BEL

	S CLASS
	4.00%

6-7	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	3-4	M
		4-5	4-5	4-5	4-5	4-5	4-5	4-5					
			4	3-4	4	4	4						
			4-5	4-5	4-5	4-5	4-5						

Brilliant Red F3BS 400%

	S CLASS
	1.20%

6	4.5	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	4-5	G
		4.5	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
			4	3-4	4	4	4						
			4-5	4-5	4-5	4-5	4-5						

Red F3BL

	S CLASS
	1.45%

5-6	4	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	4-5	G
		4	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
			4	3-4	4	4	4						
			4-5	4-5	4-5	4-5	4-5						

Dark Red 2B

	S CLASS
	1.45%

6-7	5	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-6	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
			4-5	4	4	4	4						
			4-5	4-5	4-5	4-5	4-5						

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/ 1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stanno us Chloride	

NS	LS	S	NS	NS	NS	ND	ND	ND	105-130°C
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M	S	S	200-210°C	S	M	ND	ND	ND	115-130°C
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S	S	NS	200-210°C	S	S	ND	ND	ND	100-125°C
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S	S	NS	200-210°C	S	S	D	D	D	110-130°C
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S	S	NS	200-210°C	S	S	D	D	D	110-130°C
---	---	----	-----------	---	---	---	---	---	-----------

S	S	NS	200-210°C	S	S	D	D	D	105-130°C
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FASTNESS PROPERTIES									GENERAL PROPERTIES						
ISO 105 B02 AATCC 16 Option 3, 20AFU		Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10°C at 60° C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability		Metal Ion Sensitivity	Levelling at 130°C
		PES	CS	CS	CS	CS	CS	CS	CS	Dry	CS	Wet	Copper		
			PA	PES	PES	PES	PES	PES	Copper						
			CO	CO	CO	CO	CO	CO							

S, SE, E RANGE

JAYLENE
DISPERSE
DYES

1/3

1/1

RSD

Rubine S-2G 150%

		S CLASS
		1.10%

Rubine GFL

		SE CLASS
		0.50%

Rubine 3B 200%

		S CLASS
		0.95%

Red Violet FBL 200%

		SE CLASS
		1.80%

Violet S-3R

		S CLASS
		0.95%

Violet 3R Conc

		SE CLASS
		0.95%

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/ 1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stannous Chloride	

S	S	NS	200-210°C	S	S	D	D	D	105-130°C
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LS	S	LS	200-210°C	S	S	D	D*	D*	100-130°C
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S	S	NS	200-210°C	S	S	D	D	D	110-130°C
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M	M	NS	200-210°C	S	S	ND	ND	ND	110-130°C
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S	S	NS	190-200°C	S	S	D	D	D	100-130°C
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LS	M	M	190-200°C	S	S	D	D	D	100-130°C
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S, SE, E RANGE

JAYLENE
DISPERSE
DYES

1/3	1/1	RSD
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Brilliant Blue DBR Conc

	SE CLASS	
		1.80%

Blue 2RX

	E CLASS	
		2.60%

Blue ER

	E CLASS	
		2.60%

Blue SE2R

	SE CLASS	
		1.75%

Blue 2R Conc

	SE CLASS	
		2.20%

Brilliant Blue GSL 400%

	S CLASS	
		0.65%

FASTNESS PROPERTIES									GENERAL PROPERTIES						
ISO 105 B02 AATCC 16 Option 3, 20AFU		Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10°C at 60°C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability		Metal Ion Sensitivity	Levelling at 130°C
		CS		CS	CS	CS	CS	CS	CS	Dry	CS				
		PES	PA	PES	PES	PES	PES	PES	Wet						
				CO	CO	CO	CO	CO							
				PES	PA	CO	CO	CO		CO					
		PES	PA						CO					CO	
Copper															

6-7	4.5	4.5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	3-7	4-5	M
		4	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
		4	3	4-5	4-5	4-5	4-5	4-5				4-5	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4-5	

6-7	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	4-5	G
		3	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
		3-4	3	4	4	4	4	4-5				4-5	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4-5	

5-6	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-6	4-5	M
		3-4	4-5	4-5	4-5	4-5	4-5	4-5				4	
		3-4	3	4-5	4-5	4-5	4-5	4-5				4	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4	

5-6	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	4-5	M
		4	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
		4	4	4	4	4	4-5	4-5				4-5	
		4-5	4-5	4-5	4-5	4-5	5	4-5				4-5	

5-6	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-6	4-5	M
		4	4-5	4-5	4-5	4-5	4-5	4-5				4-5	
		3-4	3	4	4	4-5	4-5	4-5				4-5	
		4-5	4-5	4-5	4-5	5	4-5	4-5				4-5	

5-6	4.5	5	4-5	4-5	4-5	4-5	5	4	4-5	4-5	4-6	4-5	M
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4	
		4-5	4	4-5	4-5	4-5	4-5	4-5				4	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5				4	

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/ 1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stanno us Chloride	

M	S	NS	190-200°C	S	S	D	D	D	110-130°C
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NS	LS	S	NS	LS	NS	ND	ND	ND	100-120°C
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NS	LS	M	NS	LS	NS	PD	PD	PD	100-125°C
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NS	LS	M	200-210°C	S	S	D	D*	D*	110-130°C
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NS	LS	M	200-210°C	S	S	D	D*	D*	110-130°C
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M	S	NS	200-220°C	S	S	D	D*	D*	115-130°C
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		FASTNESS PROPERTIES							GENERAL PROPERTIES				
		Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10:°C at 60 °C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability	Metal Ion Sensitivity
ISO 105 B02 AATCC 16 Option 3, 20AFU	PES	CS											
		PA	PES	PES	PES	PES	PES	PES		CS	pH	Iron	Copper
		CO	CO	CO	CO	CO	CO	CO					
		Wet											

S, SE, E RANGE

JAYLENE DISPERSE DYES			RSD
1/3	1/1		

7	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	3-8	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4-5	
		4-5	4	4-5	4-5	4	4	4-5			4-5	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4-5	

Brilliant Blue BG 200%

	S CLASS
	2.70%

3-4	2.5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4	
		4-5	4	4-5	4-5	4-5	4-5	4-5			4	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4	

Brilliant Blue GRXF

	S CLASS
	1.50%

4	2.5	5	4-5	4-5	5	5	4-5	4	4	4-5	4-5	M
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4	
		4	3-4	4	4	4	4	4-5			4	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4	

Brilliant Blue SR

	S CLASS
	1.50%

5	3	4	4	4-5	4-5	4-5	4-5	4	4	4-5	3-8	4-5	G
		3	4	4	4-5	4-5	4-5	4			4	4-5	
		3	2-3	4	4	4	4	4-5			4	4-5	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4	4-5	

Blue MGB

	E CLASS
	1.65%

5-6	4.5	5	4-5	4-5	5	5	5	4-5	4	4-5	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4-5	
		4-5	4	4-5	4-5	4-5	4-5	4-5			4-5	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4-5	

Navy Blue 3G H/C

	S CLASS
	1.35%

5-6	4.5	5	4-5	4-5	5	5	5	4-5	4	4-5	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4-5	
		4-5	4	4-5	4-5	4-5	4-5	4-5			4-5	
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4-5	

Navy Blue S2G H/C

	S CLASS
	1.20%

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/ 1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stanno us Chloride	

S	S	NS	200-210°C	S	S	ND	ND	ND	110-130°C
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S	S	NS	210-220°C	NS	S	PD	PD	PD	115-135°C
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M	S	NS	210-220°C	NS	S	D	D*	D*	115-135°C
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NS	LS	LS	NS	NS	NS	D	D*	D*	110-130°C
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S	S	NS	200-210°C	S	S	D	D	D	100-130°C
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S	S	NS	200-210°C	S	S	D	D	D	100-130°C
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S, SE, E RANGE

JAYLENE
DISPERSE
DYES

1/3

1/1

RSD

FASTNESS PROPERTIES								GENERAL PROPERTIES					
ISO 105 B02 AATCC 16 Option 3, 20AFU	Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10:C at 60°C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability	Metal Ion Sensitivity	Levelling at 130°C
	PES	CS	CS	CS	CS	CS	CS	CS	Dry	CS		Iron	
		PES	PES	PES	PES	PES	PES	Wet	Copper				
		PA	PA	PA	PA	PA							
		CO	CO	CO	CO	CO							

Navy S2GDB

S CLASS	
1.20%	

5-6	4.5	5	4-5	4-5	5	5	5	4-5	4	4-5	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4-5			4-5	
			4-5	4	4-5	4-5	4-5					
			4-5	4-5	4-5	4-5	4-5					

Navy Blue EMGR

E CLASS	
2.07%	

5-6	4.5	4	4-5	4-5	4-5	4-5	4-5	4-5	5	3-7	4-5	G
		3	4-5	4-5	4-5	4-5	4-5	3-4			4-5	
			3	3	4-5	4-5	4-5					
			4-5	4-5	4-5	4-5	4-5					

Navy Blue MD

SE CLASS	
2.70%	

5-6	4.5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5	3-7	4-5	G
		3-4	4-5	4	4-5	4-5	4-5	4-5			4-5	
			3-4	3	4-5	4-5	4-5					
			4-5	4-5	4-5	4-5	4-5					

Black EMRD

E CLASS	
3.00%	

5-6	4.5	4	4-5	4-5	4-5	4-5	4-5	4	4-5	3-7	4-5	G
		3	4-5	4	4-5	4-5	4-5	4-5			4-5	
			3	3	4-5	4-5	4-5					
			4-5	4-5	4-5	4-5	4-5					

Black 2RC

E CLASS	
3.00%	

5-6	4.5	4	4-5	4-5	4-5	4-5	4-5	4	4-5	3-7	4-5	G
		3	4-5	4	4-5	4-5	4-5	4-5			4-5	
			3	3	4-5	4-5	4-5					
			4-5	4-5	4-5	4-5	4-5					

Black CR 300%

E CLASS	
3.00%	

5-6	4.5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	4-5	G
		3	4-5	4	4-5	4-5	4-5	4-5				4-5	
			3	3	4-5	4-5	4-5						
			4-5	4-5	4-5	4-5	4-5						

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stanno us Chloride	

S	S	NS	200-210°C	S	S	D	D	D	100-130°C
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NS	LS	M	NS	NS	NS	D	D*	D*	110-130°C
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NS	LS	M	NS	NS	NS	D	D*	D*	110-130°C
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NS	LS	M	NS	NS	NS	D	D*	D*	110-130°C
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NS	LS	M	NS	NS	NS	D	D*	D*	110-130°C
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NS	LS	M	NS	NS	NS	D	D*	D*	110-130°C
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FASTNESS PROPERTIES									GENERAL PROPERTIES					
ISO 105 B02 AATCC 16 Option 3, 20AFU		Light Fastness		Dry Heat ISO 105 P01-180°C/ 30 sec	Wash Fastness-ISO 105 C10°C at 60°C	Wash Fastness AATCC 61,2A, 49°C	Perspiration Fastness Acid ISO E04	Perspiration Fastness Alkaline ISO E04	Water Fastness ISO 105 E01	Rubbing Fastness ISO 105 X12	Carbonizing (70% H2SO4)	pH Stability	Metal Ion Sensitivity	Levelling at 130°C
		PES	CS	CS	CS	CS	CS	CS	CS	Dry	CS	pH Stability	Iron	
			PES	PES	PES	PES	PES	PES	Wet	Copper				
			PA	PA	PA	PA	PA							
			CO	CO	CO	CO	CO							

S, SE, E RANGE

JAYLENE DISPERSE DYES			RSD
1/3	1/1		

5-6	4.5		4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7		4-5	G
		3	4-5	4	4-5	4-5	4-5	4-5	4-5						
			3	3	4-5	4-5	4-5								
			4-5	4-5	4-5	4-5	4-5								

Black R Plus

		E CLASS
		2.10%

5-6	4.5		4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7		4-5	G
		3	4-5	4	4-5	4-5	4-5	4-5	4-5						
			3	3	4-5	4-5	4-5								
			4-5	4-5	4-5	4-5	4-5								

Black R Liquid

		E CLASS
		3.81%

5-6	4.5		4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3-7	4-5	G
		3-4	4-5	4	4-5	4-5	4-5	4-5				4-5	
			3-4	3	4-5	4-5	4-5						
			4-5	4-5	4-5	4-5	4-5						

Black MD

		SE CLASS
		2.10%

6	5	5	4-5	4-5	4-5	4-5	4-5	4	4	4	4-5	4-5	G
		4-5	4-5	4-5	4-5	4-5	4-5	4				4-5	
			3-4	3-4	4	4	4						
			4-5	4-5	4-5	4-5	4-5						

Black RLS 200%

		S CLASS
		3.30%

DYEING SUITABILITY				PRINTING SUITABILITY					
Fibre	Yarn	Carrier Dyeing at 100°C	Thermosol Dyeing (Optimum Temp)	High Pressure Steaming	High Temperature Steaming	Dischargeability on unfixed ground			Critical Temperature Zone (1/ 1 RSD)
						Zn Sulphoxylate Formaldehyde	Na Sulphoxylate Formaldehyde	Stanno us Chloride	

NS	LS	M	NS	NS	NS	D	D*	D*	110-130°C
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NS	LS	M	NS	NS	NS	D	D*	D*	110-130°C
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NS	LS	M	NS	NS	NS	D	D*	D*	110-130°C
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S	S	NS	200-210°C	S	S	D	D	D	110-130°C
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Jay Chemical Industries
Private Limited

Jay House, Panchvati Circle, Ambawadi,
Ahmedabad - 380 006, Gujarat, India
+91 79 26423363
info@jaychemical.com