


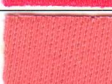

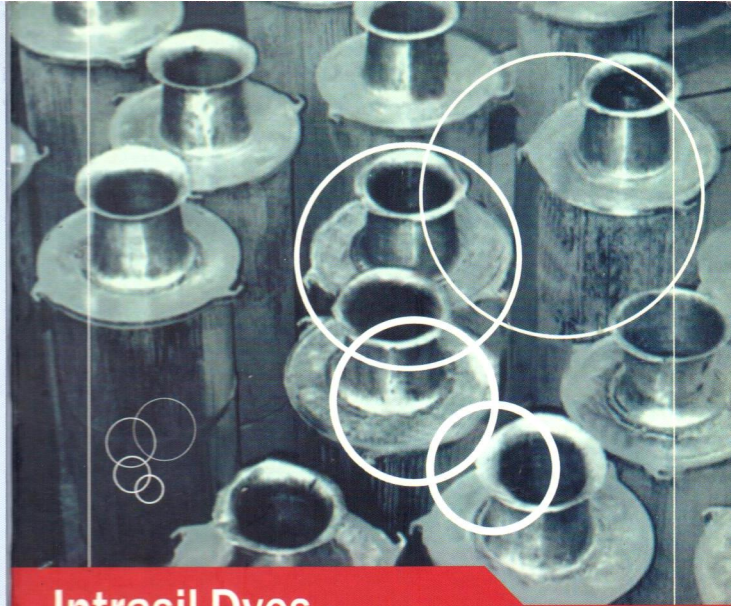




























Intrasil Disperse Dyes ---High Wetfastness Series		Classification	Fastness					Dyeing Properties			
			Light	Washing	Sublimation	Rubbing		High Temp	Thermosol	Printing	Microfibre
						Dry	Wet				
	Yellow HSF 1.0%	S	6-7	5	5	5	4-5	○	○	○	○
	Golden Yellow HSF 1.0%	S	6	4-5	4-5	4-5	4-5	○	○	○	○
	Yellow Brown HSF 1.0%	S	6-7	5	4-5	4-5	4-5	○	○	○	○
	Scarlet HSF 1.0%	S	5-6	4-5	4-5	4-5	4-5	○	○	○	○
	Pink HSF 0.5%	S	5-6	4	4	4-5	4-5	○	△	○	○
	Red HSF 2.0%	S	5-6	5	4-5	5	5	○	○	○	○
	Crimson HSF 2.2%	S	5-6	4-5	5	5	4-5	○	○	○	○
	Rubine HSF 1.5%	S	6	5	4-5	5	5	○	○	○	○
	Blue HSF 2.0%	S	6	5	4-5	5	5	○	○	○	○
	Turquoise HSF 2.0%	S	7	4-5	4-5	5	4-5	○	○	○	○
	Navy HSF 3.0%	S	6	4-5	4-5	5	4-5	○	○	○	○
	Black HSF 5.0%	S	6	4-5	4-5	5	4-5	○	○	○	○



Intrasil Dyes
for polyester

 **yorkshire**
ASIA PACIFIC

Intrasil Disperse Dyes		Classification	Fastness					Dyeing Properties				
			Light	Washing	Sublimation	Rubbing		High Temp	Thermosol	Printing	Carrier	Microfibre
						Dry	Wet					
	Yellow S-6G 200 1.0%	S	6-7	4-5	5	5	5	○	○	○	×	○
	Yellow SE-4G 200 0.5%	SE	6-7	4	4-5	4-5	4	○	△	○	○	○
	Yellow E-3G 200 0.8%	E	6	3-4	3	4	4	○	△	△	○	○
	Orange E-RL 250 0.5%	E	6	4	3-4	4	4	○	△	△	○	×
	Orange S-GSF 200 1.0%	S	6-7	4-5	4-5	5	4-5	○	○	○	△	○
	Yellow Brown S-2RFL 1.0%	S	7	4-5	4-5	5	5	○	○	○	×	○
	Orange SE-RBL 200 0.5%	SE	6-7	4	4	4-5	4	○	△	△	○	○
	Brown S-3RL 150 1.0%	S	5-6	4-5	4	4-5	4-5	○	○	○	△	△
	Red S-3GL 1.5%	S	5	4	4	4-5	4-5	○	○	○	○	○
	Scarlet SE-GSN 200 1.0%	SE	5-6	4-5	4	4-5	4	○	○	○	○	△
	Red E-2GFL 200 1.0%	E	6	4	3	4	4	○	△	△	○	○
	Red E-FB 200 1.0%	E	6-7	3-4	3	4-5	4	○	△	△	○	△
	Red S-3BS 200 0.5%	S	5-6	4	4	4-5	4	○	○	○	△	○

Intrasil Disperse Dyes		Classification	Fastness				Dyeing Properties					
			Light	Washing	Sublimation	Rubbing		High Temp	Thermosol	Printing	Carrier	Microfibre
						Wet	Dry					
	Red SE-KB 200 2.2%	SE	5-6	4-5	5	4-5	4-5	○	○	○	○	○
	Red SE-CB 200 1.5%	SE	5-6	4-5	5	4-5	4-5	○	○	○	○	○
	Red S-FRL 1.0%	S	6	4-5	4-5	4-5	4-5	○	○	○	×	○
	Red S-BR 1.5%	S	6-7	4	4-5	4-5	4	○	○	○	△	○
	Rubine SE-GFL 200 0.8%	SE	6	4	4	4-5	4	○	○	○	○	○
	Red S-BBL 200 1.0%	S	6-7	4	4	4-5	4	○	○	△	△	△
	Red SE-TB 200 1.5%	SE	6	4	4-5	4-5	4	○	○	○	○	○
	Red S-4B 200 1.5%	S	6-7	4-5	4	5	4-5	○	○	○	×	○
	Rubine S-B 200 1.0%	S	6	4	4	4-5	4	○	○	○	△	○
	Violet S-FRL 1.5%	S	6-7	4	4	4-5	4	○	○	○	○	○
	Violet S-3RL 200 1.0%	SE	6	4-5	4	4-5	4-5	○	○	○	△	△
	Turquoise S-BG 2.0%	S	6-7	5	4-5	5	5	○	○	○	△	○
	Blue S-2GS 200 0.8%	S	5-6	4	4	4-5	4-5	○	○	○	×	○










Intrasil Disperse Dyes		Classification	Fastness					Dyeing Properties				
			Light	Washing	Sublimation	Rubbing		High Temp	Thermosol	Printing	Carrier	Microfibre
						Wet	Dry					
	Blue S-BBL 200 0.5%	S	7	4	4-5	4-5	4	○	○	○	△	△
	Blue E-BL 1.5%	E	6-7	4	3	4-5	4	○	△	△	○	△
	Blue SE-FBL 1.0%	SE	6-7	4-5	4	5	4	○	○	○	×	△
	Br. Blue SE-2R 0.8%	SE	6	4	4	4-5	4	○	△	○	△	△
	Blue SE-3RT 1.5%	SE	5-6	4	4	4-5	4	○	○	○	△	△
	Navy S-2GRL 200 3.0%	S	5-6	4-5	4-5	5	4-5	○	○	○	×	△
	Navy ECO 300 2.0%	SE	5-6	4	4	4-5	4-5	○	○	△	×	○
	Black AP-B 3.0%	SE	6	4	3-4	4-5	4-5	○	○	△	△	△
	Black AP-R 3.0%	SE	6	4-5	3-4	4-5	4-5	○	○	△	△	△
	Black S-2B 200 4.0%	S	6-7	5	4	4-5	4-5	○	○	△	×	△

Classification

S : High Energy Level
SE : Medium Energy Level
E : Low Energy Level

Dyeing Conditions

Material : Polyester
Temperature : 130℃
Time : 45min
Liquor Ratio : 1: 10
pH : 4.8

Intrasil Disperse Dyes --- Rapid Dyeing Series		Classification	Fastness					Dyeing Properties				
			Light	Washing	Sublimation	Rubbing		High Temp	Thermosol	Printing	Carrier	Microfibre
						Dry	Wet					
	Yellow E-RD 0.5%	E	6	4	3-4	4-5	4-5	○	△	△	○	○
	Red E-RD 0.5%	E	7	4	3-4	4-5	4-5	○	△	△	○	○
	Blue E-RD 0.5%	E	7	4	3	4-5	4	○	△	△	○	○
	Yellow SE-RD 200 1.0%	SE	6	4	4-5	4-5	4-5	○	△	△	×	○
	Orange SE-RD 200 1.0%	SE	6	4	4-5	5	4	○	△	△	×	○
	Red SE-RD 200 2.0%	SE	5	4	4	4-5	4	○	△	△	×	○
	Rubine SE-RD 200 1.0%	SE	5-6	4	4	4-5	4	○	△	△	×	○
	Blue SE-RD 200 2.0%	SE	5-6	4	4	4-5	4-5	○	△	△	×	○
	Navy SE-RD 200 3.0%	SE	5-6	4	4	4-5	4-5	○	△	△	×	○

Suitability

○ : Suitable
△ : Less Suitable
× : Not Suitable

Test Methods of Fastness

Light : AATCC 16E-1998 (Xenon Arc)
Washing : ISO 105-C03 (60℃×30min)
Sublimation : AATCC133-1994
Rubbing : AATCC8-1996

Dyeing Process

A) Exhaust Dyeing

Dyeing Bath	X g	: Intrasil Dyes
	pH4.5-5.0	: Dyapol AB or Intratex AB-45
	1g/l	: Dyapol XLF
	1g/l	: Dyapol OKW
	1-3°C/min.	: Rate of rise
	130°C, 30-60mins	
Reduction Clearing	Cool to 80°C	
	1-3g/l	: Dyapol ECO
	Check pH, retaining 4.5	
	80°C, 10-20mins	
	Rinse	

B) Thermosol Dying

Padding Solution	Xg/l	: Intrasil Dyes
	5-10g/l	: Antimigrant CD
	1-2g/l	: Dyamol CDW
	pH4.5	: Dyapol AB or Intratex AB-45
Padding	30-40°C	
	50-80% Wet Pick Up	
Pre-Drying	110°C, 1-2min	
Thermofixation	180-220°C, 90-30secs	
Reduction Clearing	8-10g/l	: Caustic Soda 38° Be
	8-10g/l	: Sodium Hydrosulphite
	2-4 g/l	: Dyamol RCL
	80°C, 30secs	

C) Printing

Printing Paste	Xg	: Intrasil Dyes
	500-600g	: Polyprint TH/TL
	5g	: Ammonium Sulphate
	20g	: Urea
	3-5g	: Dyapol HWF
	Yg	: Water
	1000g	: Total
Pre-Drying	110°C, 1-2min	
Fixation	HT Steam	: 170-180°C, 10-7min
	HP Steam	: 130°C, 2.5bar, 20-30min
	Hot air	: 180-200°C, 60 secs
Reduction Clearing	8-10g/l	: Caustic Soda 38° Be
	8-10g/l	: Sodium Hydrosulphite
	2-4 g/l	: Dyamol RCL
	80°C, 30secs	

Recommended Auxiliaries

Dyapol AB

A buffer with built in dispersing and metal sequestering properties for use in the application of disperse dyes on polyester and for disperse/direct or disperse/reactive dyes on polyester/cellulosic blends dyed by a 'one-bath' process Controls the effects of temporary water hardness and overcomes problems associated with water supplies, which are subject to wide variations in pH. This product is essential when dyeing with disperse dyes sensitive under neutral or alkaline pH conditions.

INTRATEX AB-45

A buffer with built in metal sequestering properties for use in the application of disperse dyes on polyester and for disperse/direct or disperse/reactive dyes on polyester/cellulosic blends dyed by a 'one-bath' process.

DYAPOL XLF

A highly effective levelling and dispersing agent for the application of disperse dyes to polyester, especially in difficult dyeing conditions or using difficult dye stuff combinations

Dyamul OKW

A powerful solvent based detergent enabling one bath scouring and dyeing on synthetic and cellulose and their blends. A versatile product in removing oil based residues, spin finishes, organic dirt and waxes in cottonspecially under and acid and neutral conditions. Effective in its removal and control of oligomer.

DYAPOL ECO

A highly effective liquid reducing agent in an acid medium for the removal of unfixed disperse dyes on polyester, acrylic and cellulose acetate goods and their blends. No need to neutralize after reduction clearing, which saves significant time, energy and water.

ANTIMIGRANT CD

An anti-migrating agent for continuous dyeing with all dyestuff classes. And minimizes build up on pad rollers.Helps to maintain bath stability throughout the fabric run. and is highly effective even on difficult fabric/dyestuff/shade combinations.

DYAMUL CDW

A rapid wetting and de-aerating agent suitable for all continuous and exhaust applications, including package, beam and jet dyeing.

DYAMUL RCL

A low foam dispersant and emulsifier with strong levelling properties, ideal for reduction clearing, stripping and levelling of polyester and acetate fibres dyed with disperse dyes.

DYAPOL HWF

An anti-reduction agent designed to minimize yield loss and to improve shade reproducibility on reduction sensitive disperse dyes.

OPTINOL MBF

A highly effective migration and leveling agent which is very suitable for high temperature dyeing of polyester and its blends, not only increases the yield of high molecular weight disperse dyes but aids for dyeing of polyester microfibre.

OPTINOL BTH

A non-foaming, odourless, environmental carrier and leveling agent for polyester dyeing and is highly effective in both atmospheric and high-pressure situations as a carrier and/or leveling agent. Can be used to dye polyester/elastane blends and gives a good reserve on wool and cotton in polyester/wool and polyester/cotton blends.