

yorkshire

Important:

The information contained in this document is based upon the present state of our knowledge and upon the results of detailed evaluation work, presented objectively. It is made without liability as to any results obtained by the application of the products described therein.

It is strongly recommended that, before proceeding to industrial scale work, trials should be carried out to assess product performance under the specific conditions that will be encountered.



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seriene TVVF dyes

This folder illustrates **Serilene HWF** dyes on texturised woven polyester fabric. **Serilene HWF** dyes have been developed to provide the dyer with the means to achieve the high wet fastness demands of today's end-users.

Serilene HWF dyes are particularly suitable for obtaining high wet fastness on 100% polyester and polyester/cotton blends to meet the criteria of the Marks and Spencer C4A (60°C) and Adidas Sportswear wash tests.

Serilene HWF dyes are intended for application by exhaust and continuous dyeing as well as by printing.

kev features

- Inherent high wet fastness
- Excellent reservation of cellulose to produce a 'Marl' or 'Heather' effect in polyester / cotton blends
- · Readily cleared by alkali

flore suitability

- 100% Polyester
- Polyester microfibres
- Polyester / cotton blends

process suitablity

- · Exhaust and continuous dyeing methods
- One-bath dyeing of polyester / cotton blends with reactive dyes
- · Direct printing applications



Supplementary Dyes

To enable a wider shade gamut to be obtained, the **Serilene HWF** dye range may be supplemented by the following dyes:

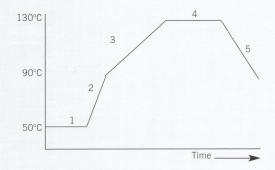
Serilene Brilliant Blue 2GN 200
Serilene Violet 2R-LS

In addition, Serilene Royal Blue HWF and Serilene Crimson HWF are available in the American and Asian markets. See your local representative for details.

dveina method

- 1. Set dyebath at 50°C with:
 - x.x% Serilene HWF dye (previously dispersed)
 - 2.0 3.0ml/l **Dyapol HWF**
 - 1.0 2.0ml/l Dyapol AB
 - pH4.0 4.5
- 2. Raise the temperature to 90°C at 2-3°C per minute
- 3. Raise the temperature to 130 135°C at 1°C per minute
- 4. Maintain at 130 135°C for 45 60 minutes depending on depth of shade to be dyed
- 5. Cool dyebath to 70°C at 1 2°C/minute
- 6. Drop liquor, rinse and aftertreat as required

typical dyeing profile



aftertreatment

Most shades will be adequately cleared by an alkaline scour with the following:

- 1.0g/l Sodium carbonate
- 1.0 2.0ml/l Dyapol RCL
- 15 minutes at 95°C followed by rinsing

Optimum results are achieved with a standard reduction clear treatment using:

- 1g/l Dyamul RCL
- 2g/l Caustic Soda
- 2g/l Sodium Hydrosulphite

for 20 minutes at 70°C

softening

Careful selection of softener is required to optimise the fastness properties of the finished fabric. The use of the following softeners is recommended:

Siltouch RS Patsoft 1220

recommended combinations

Medium	Dark	
Serilene Brown HWF	Serilene Brown HWF	
Serilene Rubine HWF	Serilene Rubine HWF	
Serilene Blue HWF 200	Serilene Navy Blue HWF	

auxiliary selection

To achieve consistently reproducible results **Serilene HWF** dyes should always be applied using the following auxiliaries:

Dyapol HWF

Protects dyestuff against chemical reduction in the dyebath. Recommended concentration 2.0 - 3.0ml/l.

Dyapol AB

Anionic dispersing and buffering agent

Built-in sequestering properties
 Stabilises dispersions at high temperatures
 Recommended concentration 1.0 - 2.0ml/l

Siltouch RS

Silicone based softener Imparts a soft silky, slightly elastomeric handle Suitable for use on all fibres Applicable by pad, spray or exhaust methods Recommended concentration 1.0 - 2.0%

Patsoft 1220

Cationic softener for improved cutting and sewing performance Applicable by continuous or exhaust methods Suitable for polyester and polyester/cotton blends Recommended concentration 1.0 - 2.0%

Serilene	Light B01 1/10 1/1	Washing M&S C4A@60°C		Adidas Wash Test		Perspiration EO4	
		CC	SPA	CC	SPA	CC	SPA
Brilliant Yellow HWF 0,75%	6-7 7	5	5	5	4-5	5	5
Brown HWF 1,10%	7 7	5	4-5	5	4-5	5	4
Red HWF 1,70%	5	5	5	5	5	5	5
Rubine HWF 1,10%	5-6 6	5	4-5	5	4	5	4
Blue HWF 200 1,00%	5-6 6	5	5	5	4-5	5	5
Green HWF 2,00%	4-5 4-5	5	4	5	4	5	5
Navy Blue HWF 3,00%	6 6-7	5	4	5	4	5	4
Black HWF 4,80%	6-7 7	5	4	5	4	5	4

All fastness tests have been carried out on 100% polyester fabric at 1/1, NB/DK or B/DK depth.

The fastness tests are based on the following test methods:

- Light (B01)

= Daylight

- Washing (M&S C4A) = 30 minutes at 60° C (140°F)

- Washing (Adidas)

= 30 minutes at 60°C (140°F)

- Perspiration (E04) = 4 hours at 37° C (98° F) pH8

All tests were carried out on polyester fabric dyed for 60 minutes at 130°C (266°F). After reduction clearing and drying, the dyed patterns were heat treated for 30 seconds at 180°C (356°F) before testing. With the exception of light fastness, all the tests have been carried out on the dyeings at 1/1 standard depth, (NB/DK or B/DK).

Abbreviations

CC change in colour

SPA staining of adjacent polyamide