

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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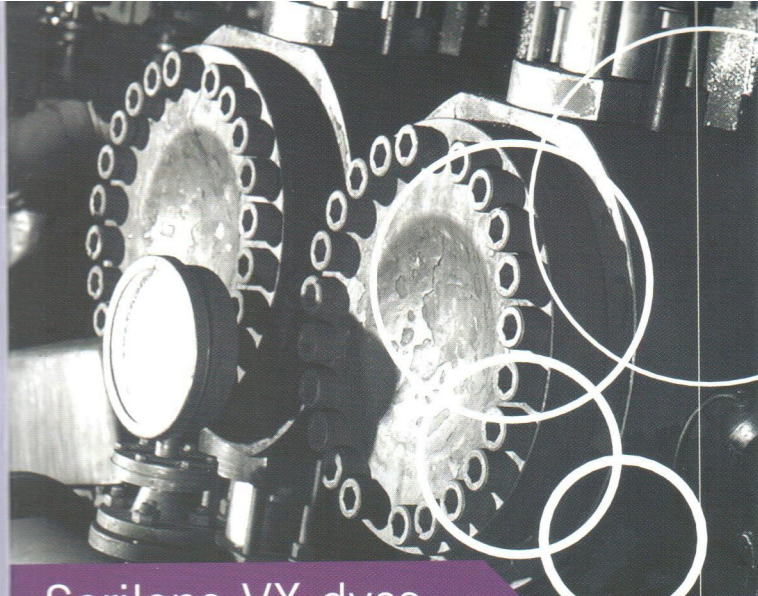
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Serilene VX dyes



fastness properties

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:

Light = Daylight

Dry Heat (Sublimation) = 30 seconds / 180°C (356°F)

C06 B2S Wash Test = 30 minutes at 50°C (122°F)

CC change in colour

SP staining of polyester

SPA staining of polyamide

Application Method

An indication of the general suitability of each dye for application to polyester by two main process routes is given:

HT high temperature dyeing

CD atmospheric carrier dyeing

+ suitable

0 may be used but not generally recommended

- not recommended

recommended combinations

Pale – medium

Serilene Yellow VX-2RLN

Serilene Red VX-RL 150

Serilene Blue VX-BLN

Medium – dark

Serilene Orange VX-RL

Serilene Rubine VX-RL

Serilene Navy Blue VX-BL

polyester / cellulosic blends

Polyester / cellulosic blends of yarn or fabric can be dyed with

Serilene VX dyes and high temperature stable **Intralite** direct dyes using a single-bath, single-stage dyeing method.

Serilene VX dyes are suitable for the dyeing of polyester / cellulosic blends with the **Intracron** range of reactive dyes.

continuous dyeing

Serilene VX dyes can be applied by pad / thermosol to polyester / cotton and 100% polyester using fixation temperatures in the range of 180-200°C.

serilene VX dyes

Serilene VX dyes have been designed to achieve outstanding results under even the most difficult dyeing conditions.

Serilene VX dyes are ideally suitable for situations where levelness and reproducibility may be a problem, for example:

- beam dyeing of polyester lining fabrics
- package dyeing of polyester yarn
- package dyeing of polyester zips
- jig dyeing of polyester lining fabrics

Serilene VX dyes offer the following outstanding features:

- excellent compatibility in all shades
- insensitivity to variations in time and temperature
- exceptional level dyeing properties
- good migration properties
- high exhaustion rates
- good all-round fastness properties

Benefits of **Serilene VX** dyes

- increased dyehouse productivity
 - potential for right-first-time dyeing
 - highly suitable for Rapid Dyeing techniques
- exceptional reproducibility even in difficult conditions due to
 - highly compatible exhaustion rates
 - stability to process variables
 - excellent coverage of variation in fabric quality (barré)

Note: In proper use all dyes result in compliance with Oeko Tex 100 Standard (03/2000) requirements.

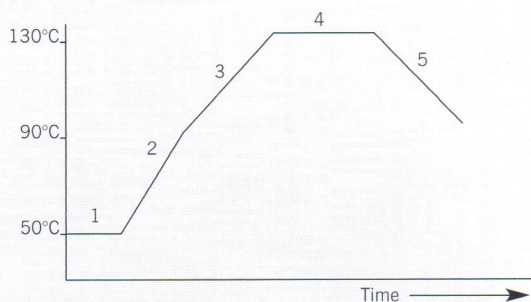
Dyeings on Polyester at 130°C	Serilene	APP HT CD	Fastness Properties				
			Light (daylight)	Dry heat 180 50°C		C06 B2S Wash test 50°C	
				CC	SP	CC	SPA
	Yellow VX-5GLN 200 0.50%	+ +	6-7 7	5	4	5	5
	Yellow VX-2RLN 1.00%	+ +	6 6-7	5	4	5	4-5
	Orange VX-RL 1.00%	+ +	6 6-7	5	3-4	5	4-5
	Red VX-RL 150 0.60%	+ 0	5-6 5	5	4-5	5	4-5
	Red VX-BL 200 1.20%	+ 0	6 6	5	3-4	5	4
	Rubine VX-RL 1.00%	+ 0	6-7 7	5	4	5	4-5
	Blue VX-BLN 0.80%	+ +	5 6	5	4	5	4
	Blue VX-GL 2.40%	+ +	6 6	5	3-4	5	3
	Navy Blue VX-BL 2.20%	+ +	4-5 5-6	5	4	5	4-5
	Black K-405B 4.00%	+ +	5-6 6-7	5	3	5	4

typical dyeing process

Serilene VX dyes show exceptional compatible exhaustion rates enabling the dyer to use a higher rate of increase in temperature than normal.

Trials under local conditions are recommended.

typical dyeing profile



1. After preparation set the bath at 50°C with:
X% **Serilene VX** dye
1-2g / l **Dyapol AB** (pH4.5)
2. Raise the temperature to 90°C at 2 - 4°C per minute
3. Raise the temperature to 130°C at 1.5 - 3°C per minute
4. Maintain at 130°C for 20 - 45 minutes depending on the depth of shade
5. Cool to 70°C at 1 - 2°C per minute
Drop liquor and aftertreat as required

aftertreatment

A reduction clear treatment will be required to obtain optimum wet fastness particularly in darker shades. A typical process is given below:

- Set the bath at 50°C with:
2 g/l Caustic Soda
2 g/l Sodium Hydrosulphite
1 g/l **Dyamul RCL**
- Raise the temperature to 70°C and run for 20 minutes
- Drop the bath, rinse and neutralise with acetic acid.

compatibility

The following dyeings show the excellent compatibility offered by

Serilene VX dyes.

Light Grey

0.011%	Serilene Yellow VX-2RLN
0.008%	Serilene Red VX-RL 150
0.025%	Serilene Blue VX-BLN

Grey

0.110%
0.080%
0.250%

rate of temperature rise from 60°C

	2°C/minute	4°C/minute	
90°C			0 mins @ 130°C
100°C			5 mins @ 130°C
110°C			10 mins @ 130°C
120°C			25 mins @ 130°C
130°C			45 mins @ 130°C
60 mins @ 130°C			60 mins @ 130°C