



Shining results

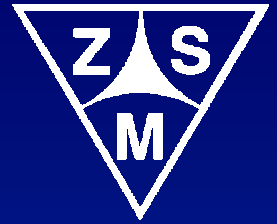
ZETESAL NPC - The Pearl of cleanliness

AFTERTREATMENT OF PES/CELLULOSICS

ZETESAL NPC

ZSCHIMMER & SCHWARZ

... THE SOLUTIONS PROVIDER



Textile auxiliaries

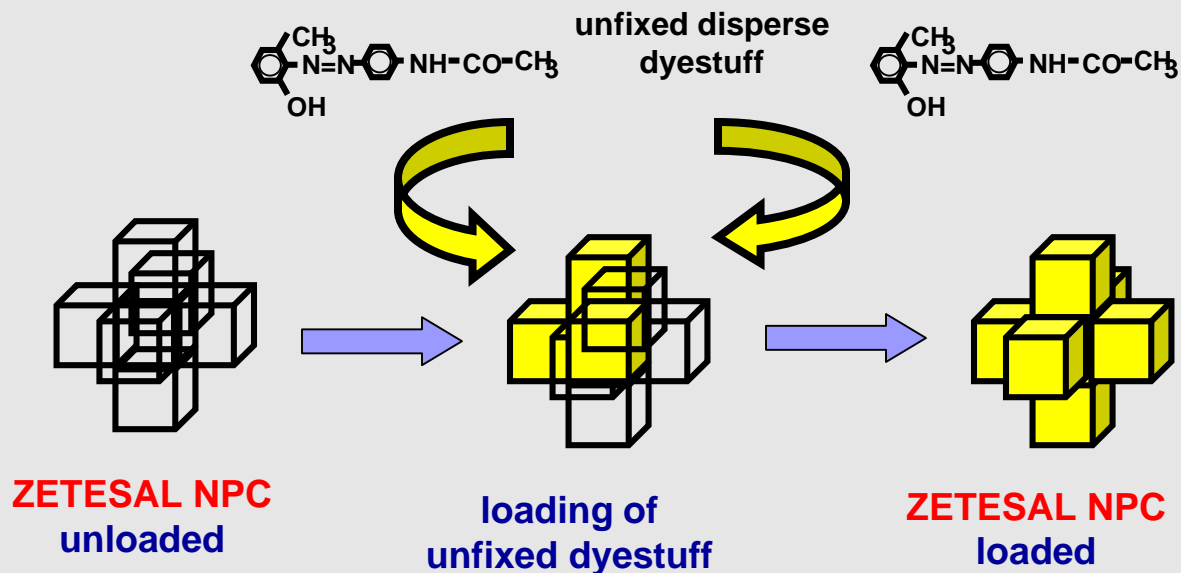
ZSCHIMMER & SCHWARZ
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ZETESAL NPC

Basic action of ZETESAL NPC:
desorption accelerating to remove the unfixed disperse
dyestuff effectively from the fabric



Product highlights:

- excellent improvement of wash fastness
- very good improvement of rub fastness
- good improvement of dry heat fastness (depends on dyestuff class)
- low water pollution level
- solvent-free

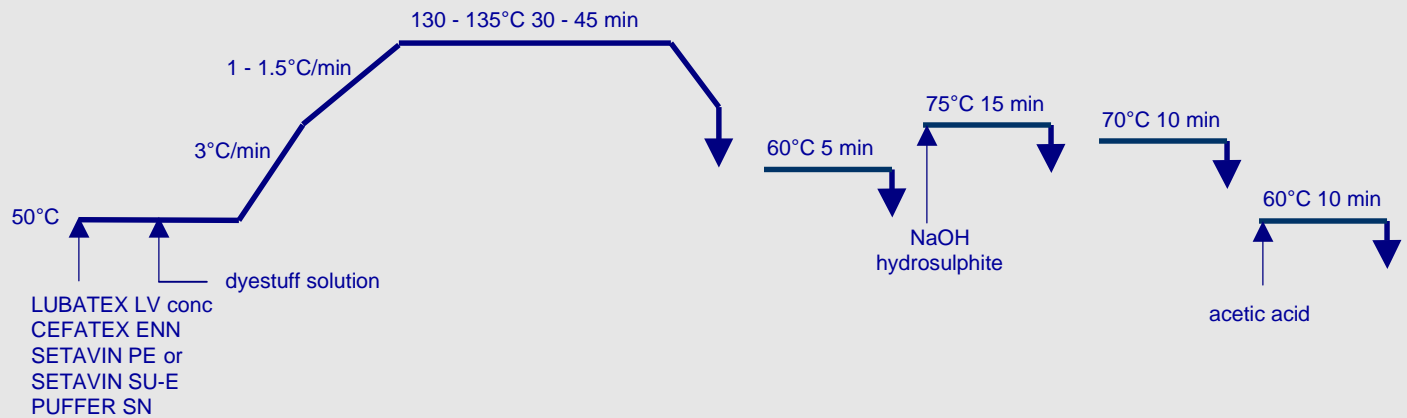


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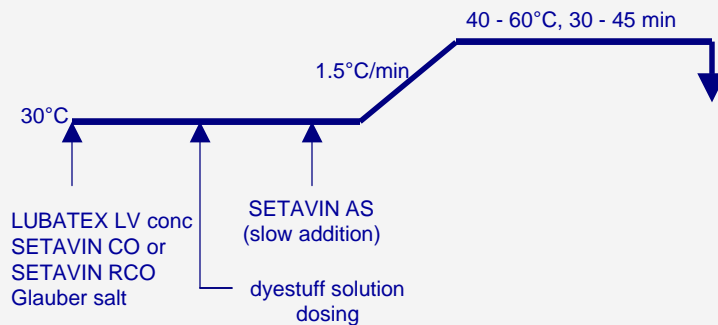


Standard process

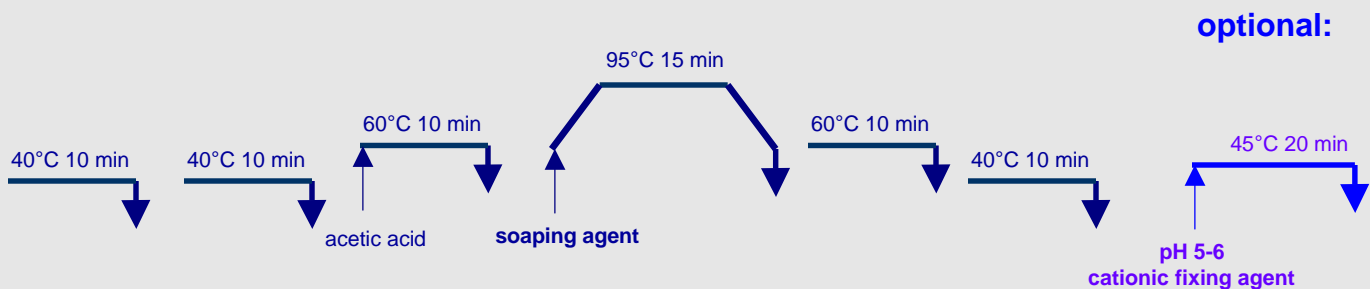
Dyeing process for PES part and intermediate clearing for dark shades



Reactive dyeing process for CO part, e.g. VS dyestuff type for dark shades



Rinsing and soaping process

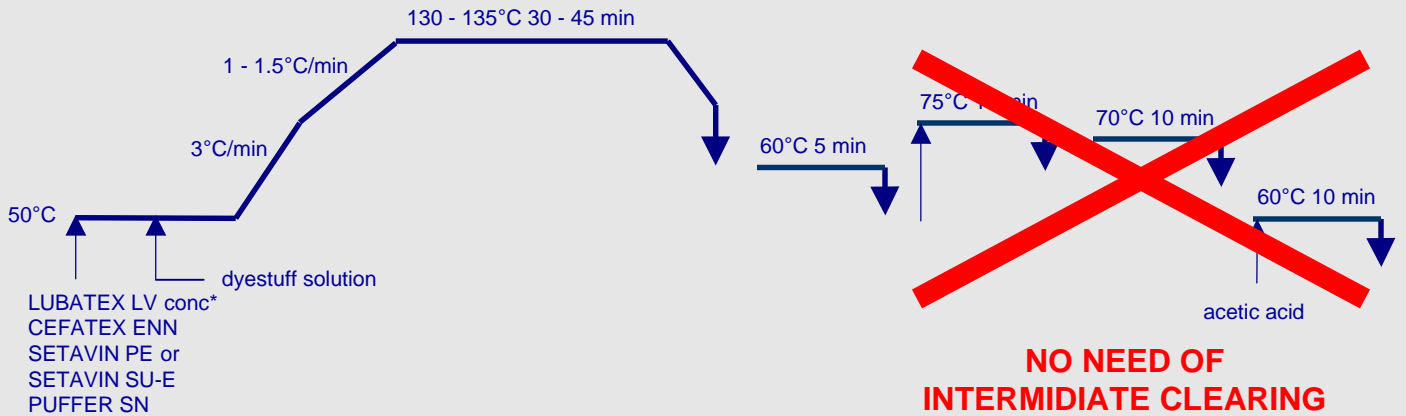


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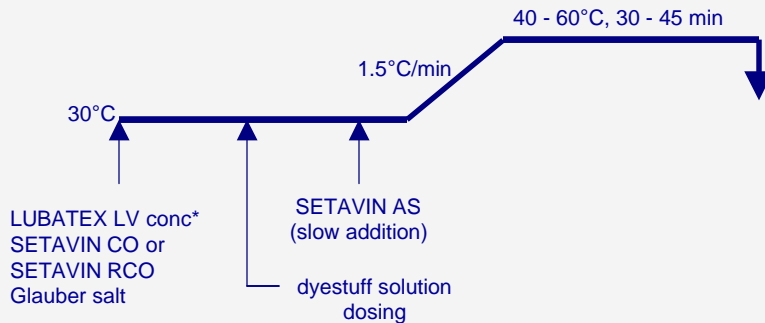


Process with ZETESAL NPC: REACTIVE Flash

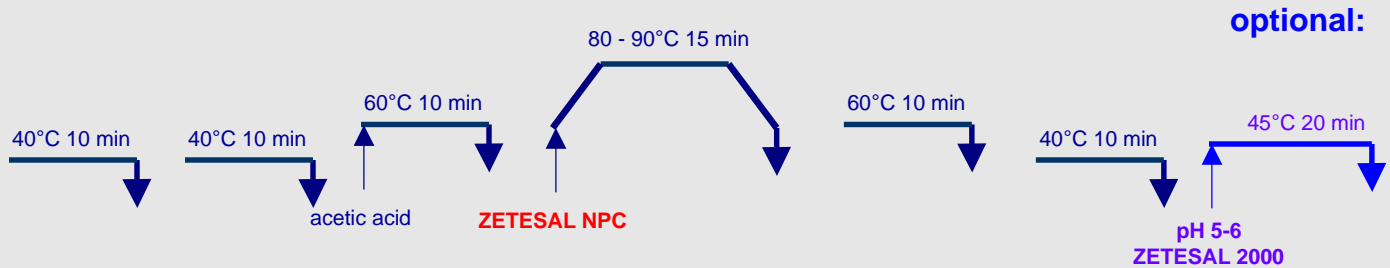
Dyeing process for PES part



Reactive dyeing process for CO part, e.g. VS dyestuff type for dark shades



Rinsing and soaping process



*optional for jet dyeing



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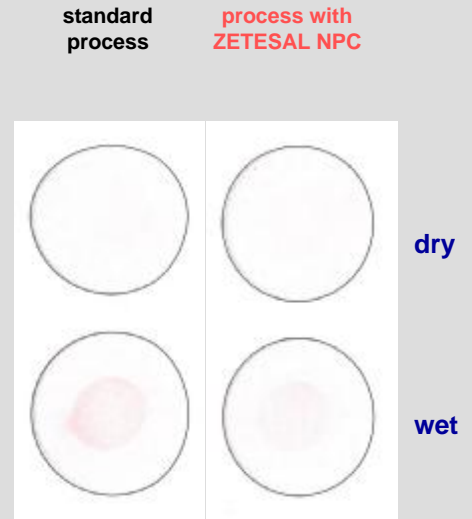


Examples

67% PES / 33% CO yarn in red shade (Foron RD; Procion HE)

Wash fastness 60°C ISO 105-C03

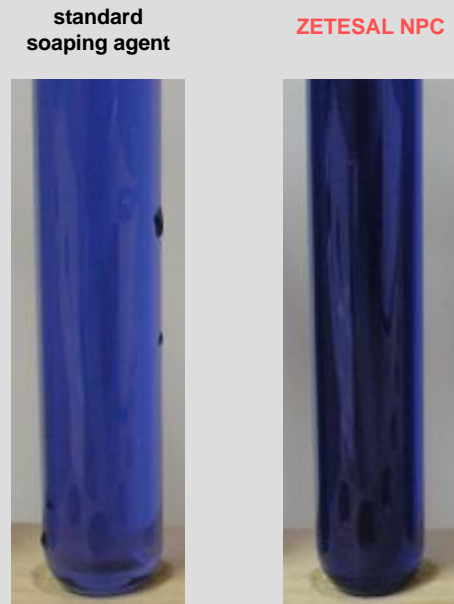
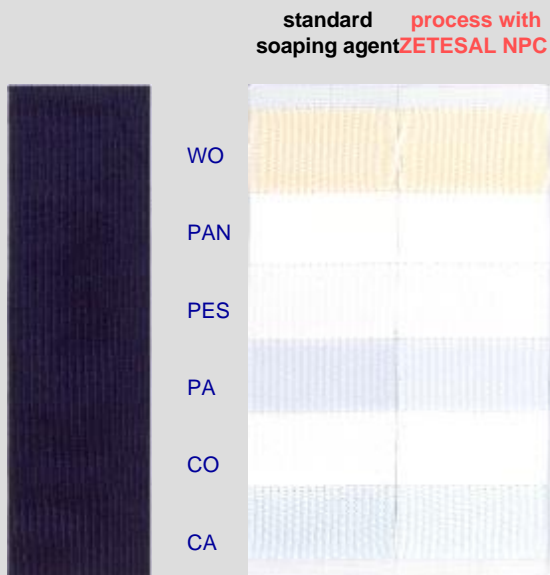
Rub fastness ISO 105-X12



45% PES / 45% CO / 10% EL in navy shade (Dianix XF; Remazol)

Wash fastness 60°C Marks & Spencer C4A

liquor soaping bath (removing unfixed dyestuff)





Examples

67% PES / 33% CO yarn in black shade (Foron RD-SE; Remazol)

Wash fastness 60°C M&S C4A

Wash fastness 95°C M&S C4A

dyeing



	standard process	process with ZETESAL NPC
WO	[Sample]	[Sample]
PAN	[Sample]	[Sample]
PES	[Sample]	[Sample]
PA	[Sample]	[Sample]
CO	[Sample]	[Sample]
CA	[Sample]	[Sample]

standard process process with ZETESAL NPC



50% PES / 50% CV in navy shade (Dianix CC; Cibacron LS)

Wash fastness 60°C M&S C4A

Dry heat fastness ISO 105-P01 180°C, 30s

dyeing



	standard soaping agent	ZETESAL NPC
WO	[Sample]	[Sample]
PAN	[Sample]	[Sample]
PES	[Sample]	[Sample]
PA	[Sample]	[Sample]
CO	[Sample]	[Sample]
CA	[Sample]	[Sample]

standard soaping agent ZETESAL NPC

PES



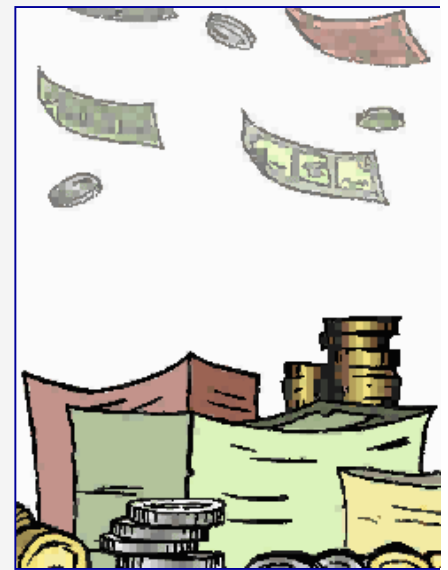
The **REACTIVEFlash** system using **ZETESAL NPC**

Variety in articles of fibre blends:

- PES/CO and PES/CO/EL fabrics
- PES/CV and PES/CV/EL fabrics
- less damaging of viscose fiber in PET/CV because of short process with high fastness level
- the best solution for the reverse dyeing procedure of PET/CO

Economical benefits:

- saving of 3 to 5 baths (45 - 75 l water/kg fabric)
- saving of minimum 60 min process time
- saving of energy
- higher production output (approx. 25%)



Ecological benefits:

- solvent free
- low water pollution level





Product overview for dyeing and aftertreatment of PES/Cellulosics

Our top products for dyeing of PES

- ◆ LUBATEX LV conc high concentrated antcrease agent
- ◆ CEFATEX ENN HT stable deaerator
- ◆ PUFFER SN acid buffer
- ◆ SETAVIN PE high concentrated levelling agent
- ◆ SETAVIN SU-E special levelling agent with very good migration properties

Our top products for dyeing of CO

- ◆ LUBATEX LV conc high concentrated antcrease agent
- ◆ SETAVIN CO levelling and dispersing agent
- ◆ SETAVIN RCO levelling and dispersing agent with pH regulating effect
- ◆ SETAVIN AS alkali supplier

Our top products for aftertreatment OF PES/CEL

- ◆ ZETESAL NPC desorption accelerator for disperse dyes
- ◆ ZETESAL 2000 cationic aftertreatment agent for reactive dyes



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