Zschimmer & Schwarz

# TEXTILE AUXILIARIES

PRODUCTS FOR POLYESTER





#### **Zschimmer & Schwarz Auxiliaries**

### for polyester and its blends fully complies with

- ZDHC level 3
- ▶ bluesign®
- ► STANDARD 100 by OEKO-TEX®, product classes I to IV
- GOTS 5.0/6.0

#### ... and participate in

► The BHive® Chemical management system



### **ENGINEERING** for

sustainable production energy & water saving

considerable improvement of CO<sub>2</sub> footprint





## **PES - pretreatment**

- ► TISSOCYL RC9 highly efficient detergent for PES/EL
- TISSOCYL NMP ecological detergent for the removement of oily lubricants
- ► TISSOCYL DLF low foaming and highly concentrated detergent for pretreatment of all kinds of fabrics





### TISSOCYL RC9 - Highly efficient detergent for polyester/elastane

- Spontaneous emulsifying of silicone oils in an aqueous system
- Very good emulsifying of ester oils and mineral oils
- Displays maximum emulsifying effect even in low temperature range
- Suitable for jets and continuous systems
- Not gelling, dosable, biodegradable, low in odour

#### **Emulsifying power of TISSOCYL RC9**



#### emulsifying test:

5 g/l coloured silicone oil 3 g/l detergent formulation 1 g/l soda ash

#### conditions:

liquor temperature 40 °C, assessment after 60 min at room temperature

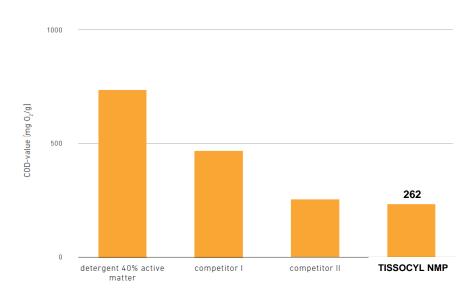


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# TISSOCYL NMP – Ecologic detergent for the removement of oily lubricants

- Excellent emulsifying of mineral and silicone oils by natural microparticles
- Organic components are readily biodegradable, not dangerous to aquatic organisms
- Low COD and BOD values:
  COD 262 mg O2/g product,
  BOD 63 mg O2/g products
- Very low foaming

#### Low COD value of TISSOCYL NMP





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## PES - dyeing

- ► CEFATEX ENN HT stable deaerator
- ► SETACID AB conc concentrated acid buffer
- ► LUBATEX LV conc concentrated anticrease agent for Jet dyeing





## PES - dyeing / levelling agents

ZETESAN P-AE– dispersing agent with levelling properties

SETAVIN PLD

 highly efficient levelling agent with excellent dispersing properties for disperse dyeing

SETAVIN PE
 highly concentrated levelling/dispersing agent

SETAVIN MIG
 – levelling agent with migration properties

SETAVIN SU-E
 – concentrated levelling agent with very good migration properties

**ZS-ECOCARRIER CAB** – ecological carrier for PES/WO dyeings and for re-levelling/ stripping of faulty dyeings





# DISPERSING, LEVELLING AND DIFFUSION AGENTS FOR PES

	ZETESAN P-AE	SETAVIN PLD	SETAVIN PE	SETAVIN SU-E	SETAVIN MIG	ZS-ECO CARRIER CAB
Dispersing						
Migrating						
Levelling						
Diffusion accelerating						
Suitable for automotive						
Eco-labels	bluesign <sup>®</sup> APPROVED	bluesign <sup>®</sup> APPROVED	bluesign APPROVED	bluesign <sup>®</sup> APPROVED		bluesign <sup>®</sup> APPROVED

not recommended moderate	good	excellent
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# SETAVIN PLD – high efficient levelling and dispersing agent for disperse dyeing

- Very good and well balanced levelling effect (retarding/synchronising)
- Outstanding dispersing effect (particularly for critical dyes, e.g. C.I.
   Disperse Blue 56, 60, 77, 87; Disperse Red 54, 60)
- Applicable in every kind of discontinuous and continuous dyeing, low foaming
- Ideal for automotive textiles with regard to highest light fastness requirements
- Low COD

#### Levelling and dispersing power of SETAVIN PLD





Textile Auxiliaries V

# SETAVIN SU-E – concentrated levelling agent with very good migration/diffusion properties

- Leveller with very good diffusion accelerating/migration power
- Excellent dyeing results with high reproducibility for dense yarn and fabric packages (e.g. zippers)
- Good dyestuff yield in low temperature processes
- Applied for dyeing of PES/Elastane blends at 115 125°C

#### Migration power of SETAVIN SU-E (125°C)





Textile Auxiliaries Y

### **PES - clearing / aftertreatment**

 ZETESAL NWM – desorption accelerator for the effective removement of unfixed disperse dyestuff

**ZETESAN P-AE** – dispersing agent, used inside RC process

SETAVIN PE – highly concentrated, used as dispersing agent inside RC process

**ZETESAN OLE** – oligomer remover



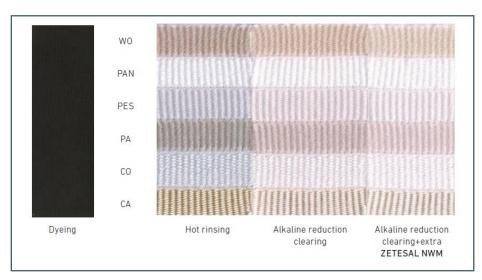


# ZETESAL NWM - desorption accelerator for the effective removement of unfixed disperse dyestuff

- Excellent improvement of wash fastness
- Very good improvement of rub fastness
- Should be used in the following processes:
   a) as single product/process for medium and dark shades
  - b) inside acid-reduction clearing process (e.g. PES/Wo blends)
  - c) in additional step after alkaline-reduction clearing and neutralisation (e.g. PES/EL)
- Solvent free

#### Wash fastness improvement by ZETESAL NWM

92% PES/ 8% EL – black shade Fastness to washing 50°C ISO 105-C06 B2S





Textile Auxiliaries Y

### **PES** - finishing

CEFASOFT SHD – hydrophilic silicone micro-emulsion for moisture regulation

► CEFASOFT SGL – silicone macro-emulsion

ADULCINOL GV — cationic softener as raising agent and for improved sewability

ADULCINOL T7515 – cationic softener with good hydrophilic and antistatic properties

# **PES** - finishing for yarn

KATAMIN UNI– wet paraffinating agent

# PES - antiyellowing agent

PROTELAN LTY —protection against storage yellowing



