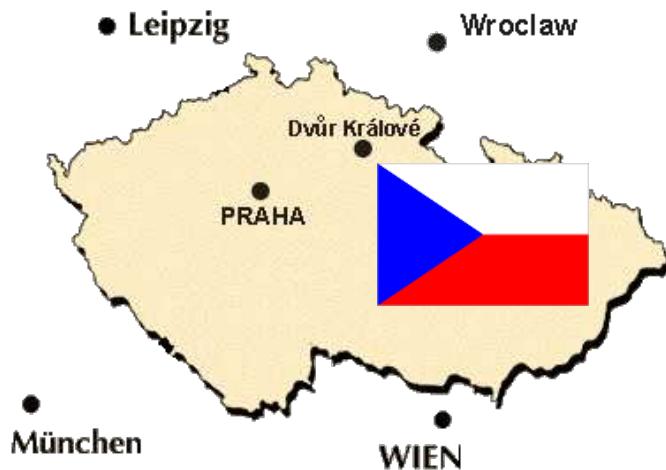


Private small textile innovation company: R&D, textiles and auxiliaries production, technologies development, optimisation and technology transfer

- Successor of former Textile Finishing Research Institute founded in 1949
- Privatized in 1996 (Ltd.)
- SME: 27 employees



CZ 544 01 Dvůr Králové n.L.
info@inotex.cz, www.inotex.cz

Working in heart of European textile production

- **TEXTILE AUXILIARY AGENTS**

customised R&D, production, sales and distribution

- **DYES**, colouristic department

colour matching and calculation of dyeing recipes



- **SMALL-SCALE**

finishing / coating capacity

short runs production



- **NEW TECHNOLOGIES**

development and transfer,
flexible service, cleaner production,
sustainability, dematerialization

- **ACCREDITED TESTING LABORATORY ISO EN 17025**

- **ECO SERVICES AND CONSULTANCY**
- **SPECIAL MACHINERY equipment and devices production**

Innovative technologies for sustainable textiles

- Technologies implantable in common textile processing mills
 - reduction of energy consumption
 - reduction and elimination of harmful substances
 - utilization of bio-based / renewable raw materials
 - reduction of textile waste volume
 - service life prolongation
 - compatibility with legislation
- Circular economy – solutions for sorting and recycling



Innovative technologies for sustainable textiles

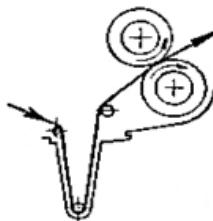
inoTEX®

- Production and distribution of TAA and dyetuffs
- Technologies development, optimization and transfer

- Technological lab → Pilot plant → Industrial production
- TAA small scale production, short run textile processing
- Flexible service during technologies and TAAs/dyes implementation in textile mills
- Colouristic department – colour matching service
- Accredited lab ISO EN 17025
- Eco/envi-affairs department, ensuring compliancy with legislation
- R&D – participation in national and international projects
- Cooperation with companies, universities, technol. centres – specialized labs/technological background



Impregnation processes



*Impregnation foulard
scheme*

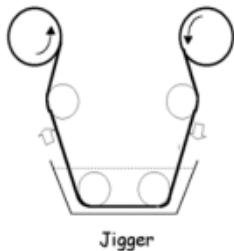


*Continuous pilot line Werner-Mathis, (technol. lab.
INOTEX)*

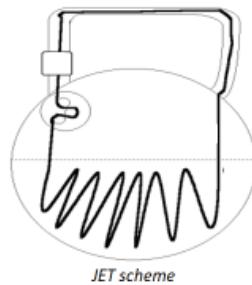


Industrial scale foulard and stenter/fixing frame – production capacity INOTEX

Exhaustion processes



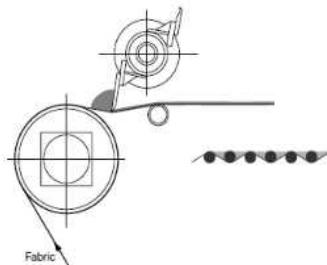
Lab jigger (technol. lab. INOTEX and ind. jigger Twin-Jig (industrial production capacity INOTEX)



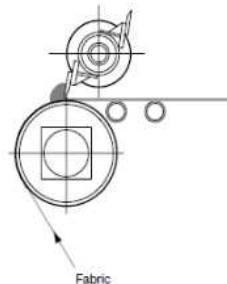
*Labomat sample dyeing device and lab.
JET – Overflow (technol. lab. INOTEX)*



Coatings



Coating – Air knife



Coating – knife against roller



Device for sample coating ROACHES and pilot conti-line Werner-Mathis in coating regime (technol. lab. INOTEX)



Industrial coating device: NSFR frame with coating head (production capacity INOTEX)

inOTEX®

VARIABLE PILOT LINE – continuous processes optimization

up to 48 cm width (coatings 45 cm)

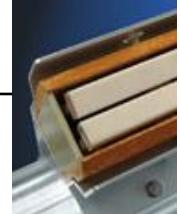
LED-UV

$\lambda = 395 \text{ nm}, 365 \text{ nm}$
max. intensity 12 W/cm^2
Air cooling
Adjustable output 0-100 %

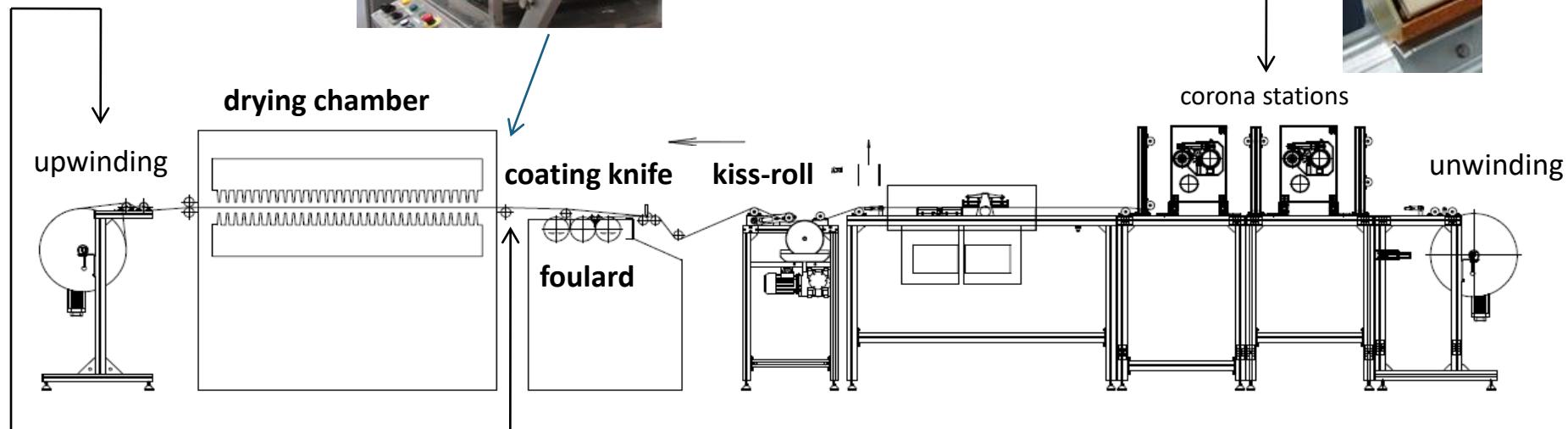


Optional premodification steps

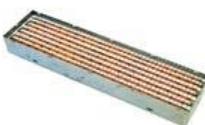
CORONA
(2X 1000 W)



corona stations



LINE OUTPUT
LED-UV



MOBILE IR-HEATER
KRELUS (2x 2,5 kW)

Adjustable line speed
and drying/fixing
temperature

inotEX®

Cationization of natural fibers

Preactivation before reactive dyeing

Cotton * Viscose * Bast * Wool

INCREASED ANIONIC DYES AFFINITY

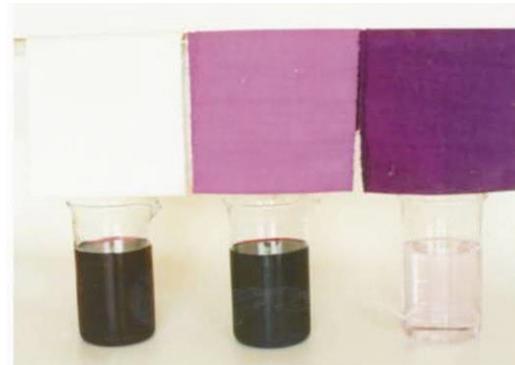
- ✓ Significantly higher dyeing yield
 - higher dyes utilization
- ✓ Deep shades unattainable by conventional dyeing process
- ✓ Less salt / Salt free
- ✓ Special colouristic effects (differential dyeing, vintage,..)
- ✓ Shortening of wash-out step
- ✓ Reduction of effluent rcolouration, easy water re-use – no desalination



Reduction of costs

lower consumption of

- water
- dye
- energy
- time



Before dyeing Non modified Cationized substrate

TEXAMIN ECE New



GreenScreen Certified™
silver certificate from
Clean Production Action,
Inc. (USA)

1. **Cationization of cellulosics**
by **TEXAMIN ECE**
jigger, PAD-BATCH, PAD-DRY
2. **Dyeing**
exhaust (jigger, drum machine),
PAD-BATCH, PAD-STEAM, PAD-DRY

Optimized dyeing process
electrolyte/alkali calculation

+ TEXALKON MS
precise buffer

Dye	Without cationization	With cationization
1 Sumifil Supra Yellow JRP 150%		
2 Sumifil Deep Red JIB		
3 Sumifil Turquoise Blue G		
4 Sumifil Deep Blue E - XF		
5 Sumifil Supra Brown JRN/		

APPLICATION EXAMPLES OF TEXAMIN ECE New

Dyeing of Co (cellulosics) with natural plant dyes

dyestuf	non cationized	pre- cationized
Natural Indigo		
Punica granatum		
Rubia Cordifolia		
Kerria lacca		
Terminalia Chebula		
Acacia Catechu		
Rheum emodi		
Quercus Inofectoria		

Natural dyes mostly need tanning with metal salts or cationic agents before dyeing. The dyeing tests were realised on pre-cationized 100% Co fabric with **TEXAMIN ECE new** and compared with coloration on the same – not cationized fabric. **Dyeing with natural indigo was realised after vatting by 50°C/30 min., the other dyes by 95°C/30min., 4% colour concentration.**

Cationization of natural fibers

TEXAMIN ECE New

Special dyeing effects

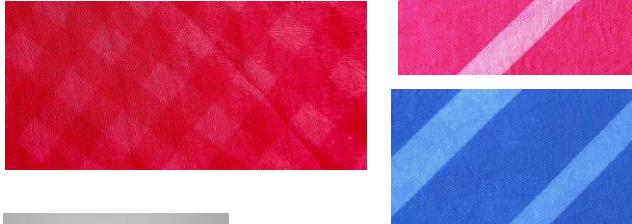
➤ Differential dyeing

Effect based on different dyeability
by Re, metal complex dyes



➤ Cationization by printing

tone-in-tone effects



Cationization of WOOL

- Differential dyeing (combed top, yarn,...)
- Antifelting effect, dimensional stability



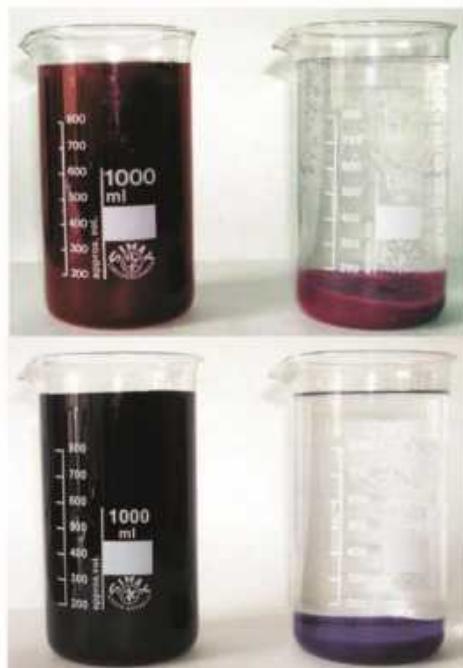
garment processing
wash-out effect

Be Environment-Friendlier Dyehouse Waste-Water Decolourization

TEXAFLOK DCL 41

Simple conditions of use:

- pH above 8,5
- temperature below 40 °C
- anionic dyes (other classes co-precipitate)
- dosage (pre-dilution 1+9 p water)
- sludge reduction



Cationic type of organic flocculant developed specially for textile wastewater decolorization

Soluble dyestuffs (reactive, direct, acid,...) change to insoluble compounds

Coagulating reaction is speedy in alkaline conditions

Texaflok DCL is able to decolorize:

- slightly colored water
- residual exhausted dyeing bath

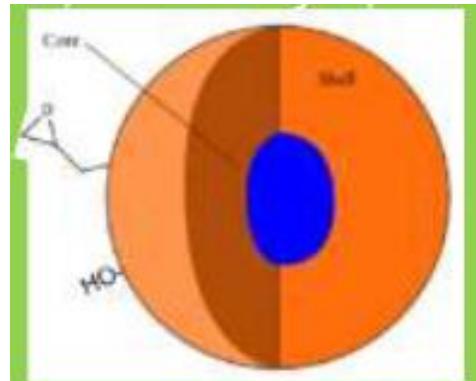
Coagulate is easy separable or it is possible to discharge into sewage clarification plant together with clarified water

Dosage of product and coagulate formation are both depend on wastewater color intensity

ECO-friendly F-free DWR system

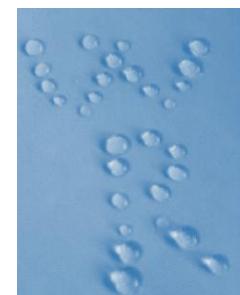
TEXAFOB ARK

*based on hybrid paraffin/acrylic system
with cross-linking groups (no extender needed)*



INOTEX – application technologies, effects evaluation, industrial upscale

- Application by impregnation or exhaustion/laundry processing (garment finishing)
- Upscaling: lab. – pilot plant – industrial
- Water repellency EN ISO 4920 (spray test) similar to FC6 or F-free paraffins
- Effect improved after washing (hydrophilic components wash-off)
- Multifunctional finishing
 - hydrophobic/FR (EN ISO 14116), TEXAFLAM CFR – cotton, blends
 - hydrophobic/antistat (ČSN 1149-1),
C-fibre – 98%PES/2% Resistat, FR Ba/PES/Resistat
 - hydrophobic/antimicrobial /self-cleaning/ (EN ISO 20743),
FreshDye – cotton, Co/PES





Clothtech



Protech



Hometech

Prolongation of functional textiles/garments service life

- Functionalization by laundry processing

- Reactivation of functional effects after determined maintenance cycles
- Dematerialization and energy saving



Barrier effects for:

- Protective clothing, healthcare, gastro-service, food processing
- Bedlinen, home textiles, accomodation facilit

➤ Flameproof:

- washpermanent TEXAFLAM CFR
- dry cleaning permanent TEXAFLAM LP, CU

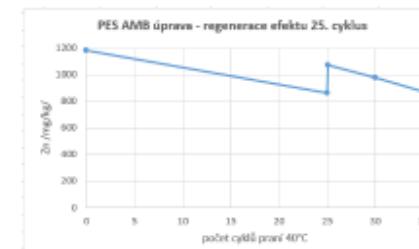
➤ DWR, antistain: TEXAFOB ARK (F-free)

- milder maintenance conditions – water and energy saving
- prevention of greasy and coloured staining
- lower effluents discharge
- PPE service-time prolongation (fiber-friendly, waste reduction)

➤ Antimicrobial: SANITIZED T11-15

➤ Combined barrier effects

- FR/DWR
- antimicrobial/DWR
- hi-vis colouration



Reactivation of effect by laundry

		Bez úpravy							s úpravou								
		water	coffee	milk/juice	red wine	olive oil	motor oil	mustard	ketchup	water	coffee	milk/juice	red wine	olive oil	motor oil	mustard	ketchup
LENA	65 PES/35 cotton	BAYGARD BCS-01	0 min	●	●	●	●	●	●	0 min	●	●	●	●	●	●	
			5 min	●	●	●	●	●	●		●	●	●	●	●	●	
			drop removed														
			Evaluation	4	4	4	3-4	4	4	4	4	4	4	4	4	4	
			washed 5x40°C	0 min	●	●	●	●	●	0 min	●	●	●	●	●	●	
				5 min	●	●	●	●	●		●	●	●	●	●	●	
				drop removed													
				Evaluation	4	4	4	4	4	4	4	4	4	4	4	4	
				washed 10x40°C	0	0	0	0	0	0	0	0	0	1-2	2		
				washed 20x40°C	4	4	4	4	4	4	4	4	4	4	4	4	
				washed 30x40°C	4	4	4	3-4	4	4	4	3-4	3-4	3-4	3-4	3-4	

Nešpinivý efekt (hydrofobní i oleofobní) stálý min v 30 cyklech praní při 40°C (+ žehlení)

SZU
SLOVENSKÝ ZDRAVOTNÍ USTAV

prádelna Lotos

inotEX®

Fresh Dye



Functional dyeing of Co and Co/PES

Fotosensitive phthalocyanines – functional dyeing

Face masks, staff clothing, bedlinen

High wearable comfort



Antimicrobial effect: EN ISO 20743

(National Public Health Institute Prague)

Antiviral effect: BS ISO 18184:2019

(Health Inst. Ostrava: SARS-CoV-2)



INOTEX spol. s r. o.

FreshDye – FUNCTIONAL DYEING OF COTTON AND Co/PES FOR REUSABLE FACE MASKS, CLOTHING, BEDLINEN, FILTERS WITH WASHSTABLE SELF-CLEANING EFFECT

Special reusable face-masks form cotton or Co/PES with self-cleaning effect based on photoactive dyeing with singlet oxygen generation under illumination with daylight or common artificial light. Short living oxygen form decomposes pollutants and microorganisms.

Testing of the material safety have been performed in the National Institute of Public Health (Prague) and Textile testing Institute (Brno) according to EN ISO 20 743 and JIS Z 2801. The self-cleaning effect is stable mini. in 50 washings at 60°C.

Suitable for health care sector: face masks, (medical staff clothing, bed linen, face masks, filters as a nosocomial infections prevention.

FreshDye technology of functional dyeing transferred into industrial production.



inotEX®

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EUROPEAN UNION
European Regional Development Fund
Operational Programme Enterprise
and Innovations for Competitiveness

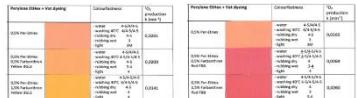
Photoactive perylenes (PDIs)

for functional dyeing

Cotton – vat dyeing

Polyester – disperse dyeing

Colourfastness [deg]	1% R2–Cl₄PDI	2% R2–Cl₄PDI
water	4-5/4-5/4-5	4-5/4-5/4-5
washing 40°C	4-5/4-5/4-5	4-5/4-5/4-5
rubbing dry	4-5	4-5
rubbing wet	4	4
light	6	6
¹ O ₂ production [10 ² .min ⁻¹]	0,16	0,19



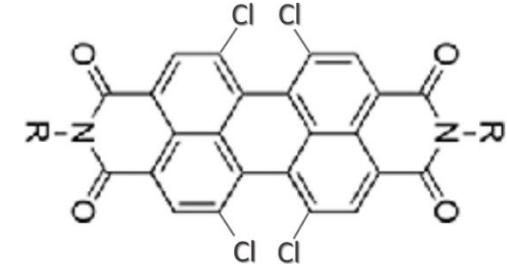
AMB effect		D65light	dark
A	<i>E. Coli</i>	3,65	-0,22
	<i>Ent. Faec.</i>	3,91	3,34

AMB effect evaluation (EN ISO 20473)

$$A = (\log C_t - \log C_0) - (\log T_t - \log T_0) = F - G$$

Testing sample vs reference

- log difference of bacteria growth



- Natural and synthetic fibres
- Self-cleaning textile surfaces
- No leaching into environment
- Pollutants degradation

✓ Interior textil



✓ Coverings



✓ Drapes



Application by vat or HT disperse dyeng



SURFPROTECT

Innovative surface treatments with reduced risk of infections transmission

Project number: CZ.01.01.01/01/22_002/0000322

Duration: 42 months

Start date: 1 July 2023

- **Means of public transport**
- **Hospitals, accommodation facilities**
- **Shopping centres**

- Protecting synergic system - Combination of a self-cleaning photocatalytic system based on organic compounds active in visible light with the antimicrobial effect of conventional biocides
- Prevention of a biofilm formation and an uncontrolled proliferation of dangerous microorganisms
- Significant reduction of the risk of contamination of the surrounding environment with dangerous chemicals



synpo

COC

FORTES
INTERACTIVE

T FCH

inotex®

Project number: FW0601010103

Duration: 48 months

Start date: 1 Jan 2023

NanoBAR

Functional barrier fabrics with nanomembrane for protective clothing
- prevention of toxic substances penetration

FR laminates with combined protection

- Self-cleaning aramide-based outer layer**

toxic pollutants degradation (model pollutants - DPBF)



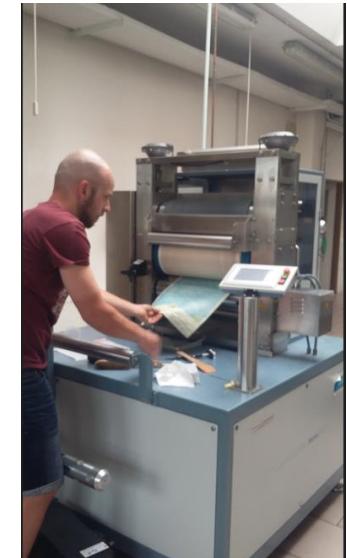
- Thermal protection**

NIR absorbing cooling colorants



- Barrier nanomembrane by electrospinning**

elimination of microparticles penetration



Fabrics for air cleaning and smell decomposition



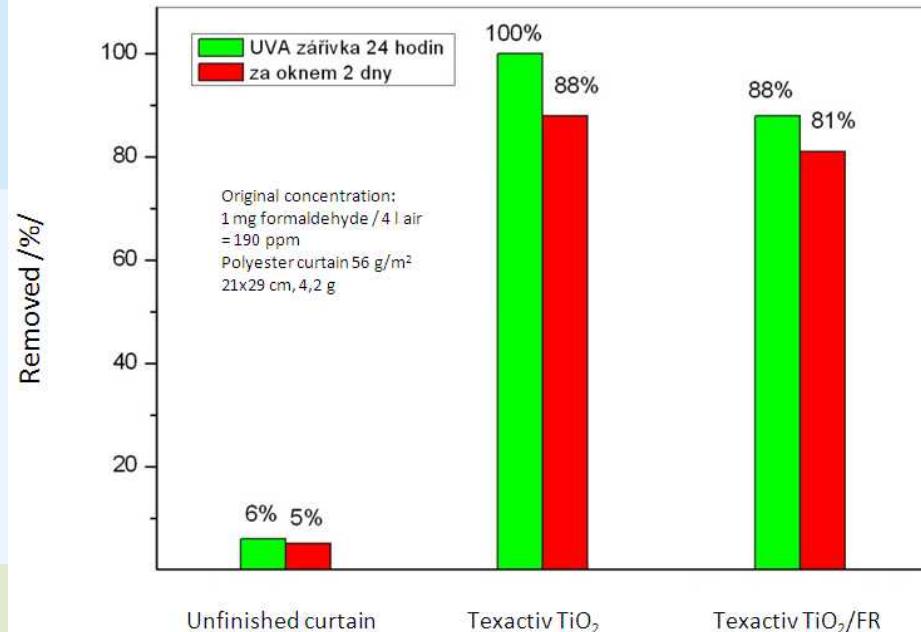
- Curtains / Drapes
- Furniture textiles

TEXACTIV TiO₂

- Air pollutants decomposition
VOCs (formaldehyde) released from furniture, carpets and paints
- Interior air quality improvement,
sick building syndrom alleviation
offices, schools, kindergartens, public buildings, households
- Combination with washpermanent flameproof finishing (EN 1101)

- ✓ Complete pollutants decomposition
- ✓ Effect stable in min. 15 washings (40°C)
- ✓ Protection of textile material against photo-damage

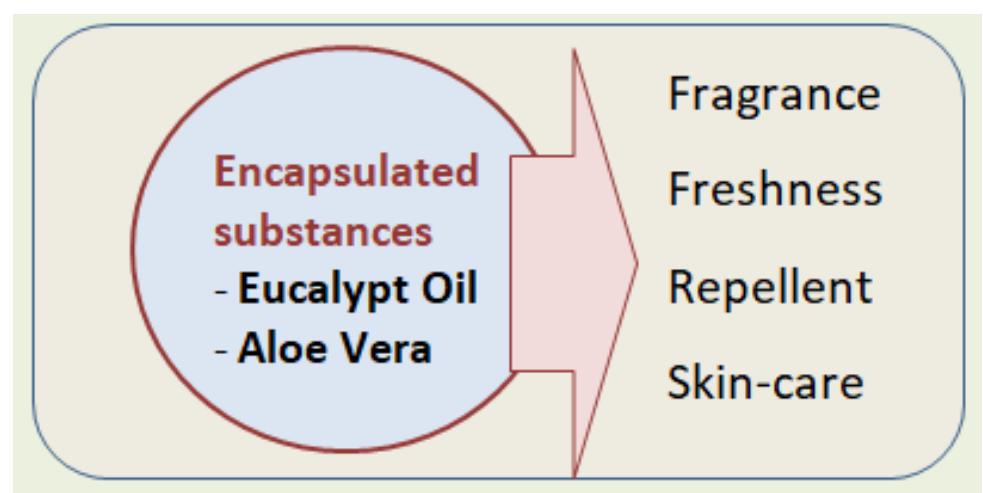
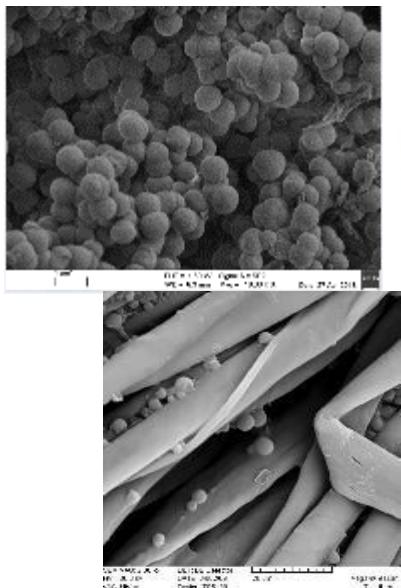
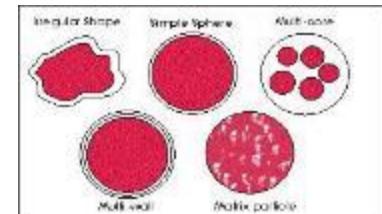
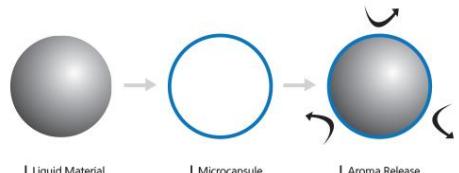
Formaldehyde removal from the air by photocatalytic curtain



SUS-ENCA Tex

Mikroencapsulation for textile finishing

- Enabling encapsulation of non-polar substances and their application by water-based systems
- Stabilization of volatile compounds
- Slow release of active substances (movement, friction)
- Uniform long-term effect by large textile surface (contact with skin)
- Protection of functional substrances (core) against external impacts (oxidation, temperature,..)



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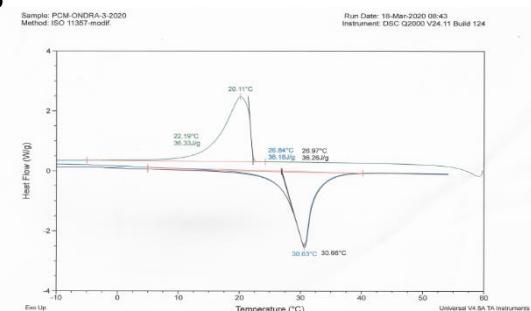


inoTEX®

SMARTTHERM

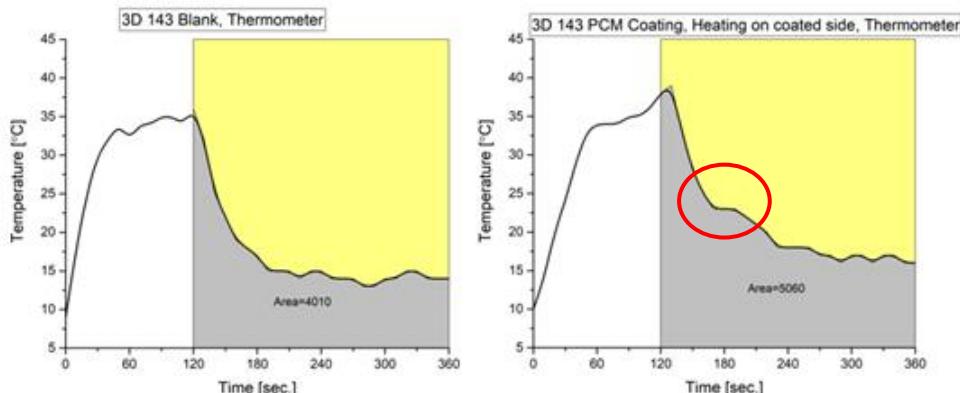
Intelligent thermoregulation based on encapsulated PCMs

- Application of PCM on textiles by back coating
- Thermal transport evaluation – termoregulation effect



Sample code	T _{on} (°C)	T _{pm} (°C)	T _{em} (°C)	ΔH _m (J/g)	T _{oc} (°C)	T _{pc} (°C)	T _{ec} (°C)	ΔH _c (J/g)	ΔT (°C)
VS PCM 1	25.35	31.12	35.6	7.75	26.23	25.22	22.09	8.19	5.9
VS PCM 2	25.62	33.47	36.13	7.3	27.1	24.85	21.37	7.24	8.62
VS PCM 3	25.33	33.45	35.58	7.15	26.67	24.89	21.23	8.14	8.56

T_{pm} and T_{pc}: the melting peak temperature and the solidifying peak temperature; ΔH_m and ΔH_c: the melting enthalpy and solidifying enthalpy; ΔT: supercooling degree (ΔT = T_{pm} - T_{pc})



SMARTTHERM

Intelligent thermoregulation based on encapsulated PCMs



PCM/VSS yarns – functional underwear



Hi-vis

DWOR

FR/antistat

PPE - PCM coated zones

3D thermoinsulationg /termoregulating casing (PCM inside)



Development of a novel finishing of textile surfaces with active ingredients of graviola plant extract



Annonaceous bioactive phytochemicals



- Anti-inflammatory
- Antioxidant
- Immunosuppression
- Combination with Aloe oil extract – skin care



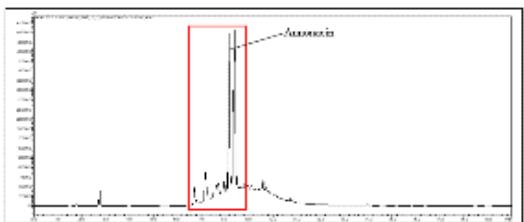
siloxane microcapsules



Skleněný poloprovozní reaktor - extrakce gravioly (COC)



Acetogenines content– HPLC analysis



Water-based air-knife coatings

- **Watertight**
- **Flameproof**
- **Termoreflective**
- **Anti-shift**



▪ **Paramagnetic coating**

- Water-based paramagnetic layers
- Customised in form of stickers
- Simple tool for (robotized IND. 4.0) applications



- **Phosphorescence light emitting layers**
 - Combination with optical fibers (TU Liberec, SINTEX)
 - LED service life prolongation



- **PCM**
 - Thermoregulation back coating

▪ **ALUTEX** **Aluminium Coating**

- Thermoreflective
- Functional additives (expandable for increased thermoinsulation)



- **Sol-gel modified additives for water-based coatings:
sol HPMC AD 30**
 - Polysaccharide-based layers
 - Sol-gel modified colloids
 - Crosslinking for washpermanency



PolyEnvi21

National Centre of Competence - Polymer Materials and Technologies for the 21st Century



- 
- Circular economy in production and processing of polymer materials: design for recycling, new (bio)polymers, waste upcycling, sustainability
 - **Interdisciplinary approach:**
Chemical industry * Automotive * Textile industry * Construction

SubProjects:

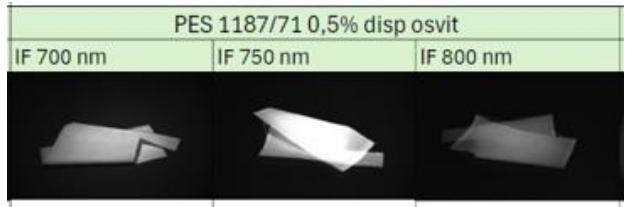
- **Marking of polymers for digitized waste sorting**
- **Removal of additives from plastic products by solvents**
- **Functional polyurethane polymers**
- **Enhancement of polymer materials by fractionization**



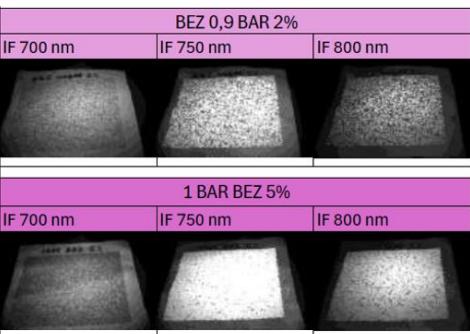
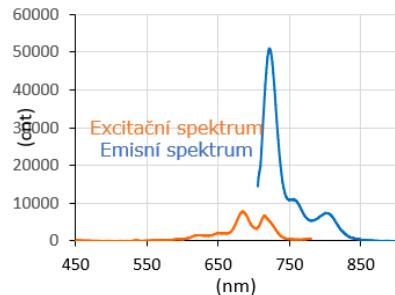
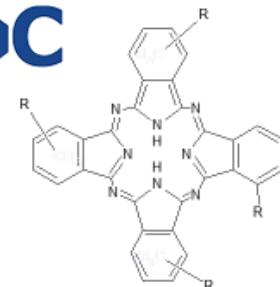
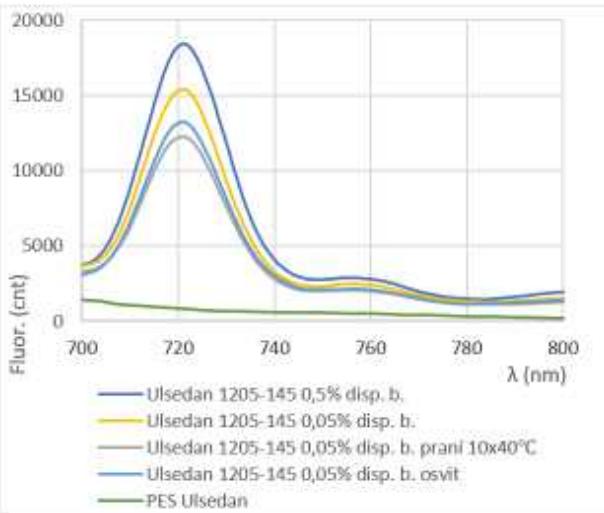
Marking of polymers for digitized waste sorting

Organic markers for marking of plastics – synthetic fibres

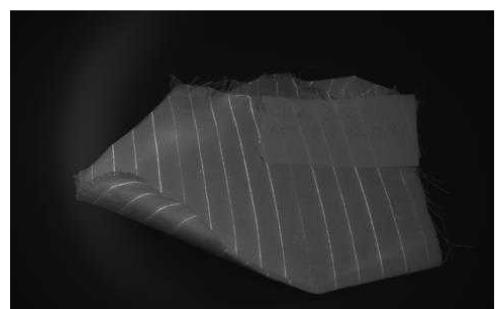
- Fluorescence 700-800 nm (NIR)
- Simple and quick identification
- Low concentrations
- No visual change
- Marking of recyclates



PES – application of markers by disperse dyeing process



PES – marking by print (inkjet Chromojet)

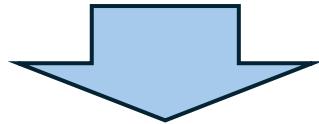


Marked PES yard in a bledn fabric Co/PES

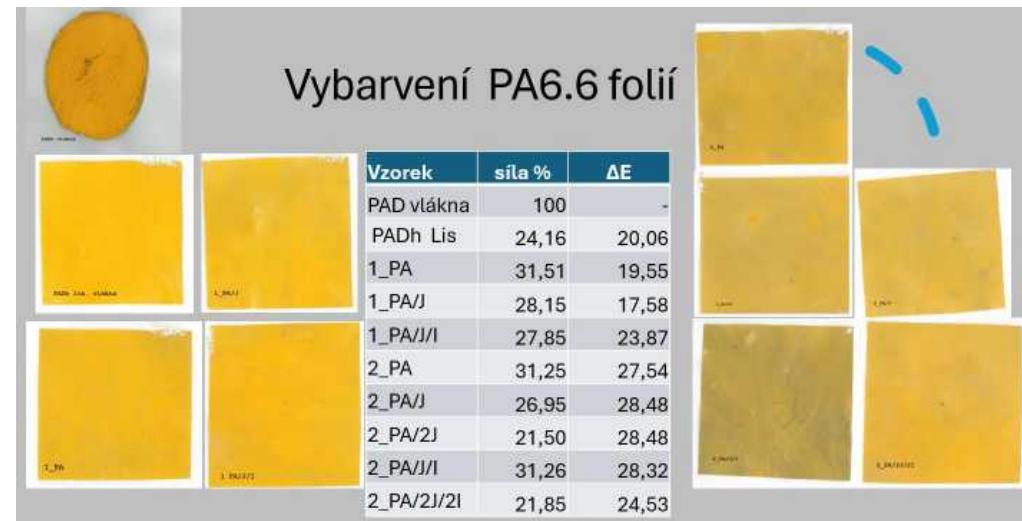
 Univerzita Tomáše Bati ve Zlíně

inoTEX®

- Quality change of polymers in dependence on recycling cycles number
- UTB: addition of chain extenders and antioxidants (TGA, DSC,...)



Determination of recycling cycles no. in terms of usability for textile applications





Replacement of conventional fibres – mainly fossile-based synthetics from uncertain sources

Textiles from renewable resources * Bio-fibrous materials * Fibres for recyclates



Recycled and regenerated fibres and blends

Comparison of mech-phys. Parameters, processing and functionalization

- SINTEX – woven and knotted constructions, ready-made products
- INOTEX – processability with common technologies:
 - blended constructions: conventional/r-fibres
 - finishing optimisation – dyeing and processing
- PES, rPES (filament, staple – from different producers
 - Aerosilver, Thermocool, EcoMade Coolmax, Super-White,..)
- Cell: VSs Lenzing (standard, EcoVero, REFIBRA – content of cotton),
VSs Kelheim (DANUFIL Optical white and DANUFIL DEEP DYE- in-mass cationized fibre
- Blends rPES/VSs, rPES/Co, linen/VSs

	EMC 1010 VS/ly	JC 1155 EcoVero/ly	JC 1156 REFIBRA/ly	JC 024 VS/VSs 30/70	IS 154 EcoVero/rPES 50/50/ly	FSC 360 REFIBRA/rPES 50/50
Zluta 0,5%						
Zluta 1%						
Zluta 2%						
Cervena 0,5%						
Cervena 1%						
Cervena 2%						
Modra 0,5%						
Modra 1%						
Modra 2%						

Tržní uplatnitelnost	Zátažné pleteniny pro konfekční zpracování oděvních výrobků (pracovní a ochranné oblečení, sport a volný čas)		
MUFCIRC 01/2022	MUFCIRC 02/2022		MUFCIRC 03/2022

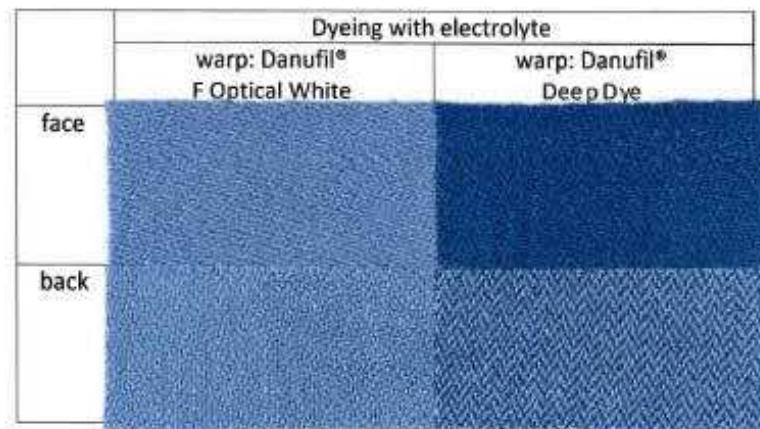
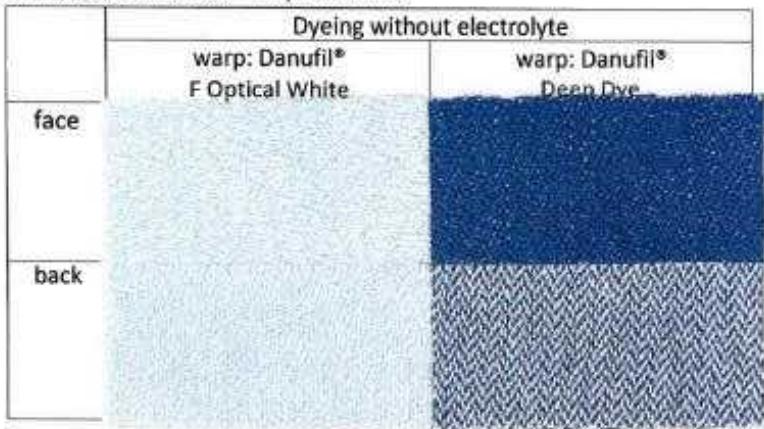
inotEX®

SINTEX

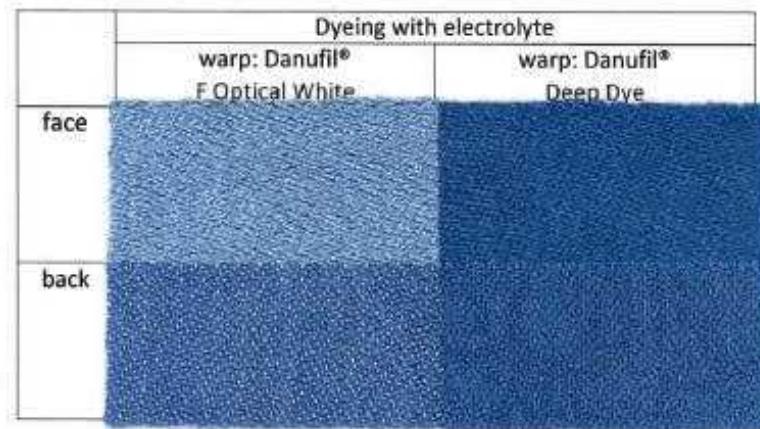
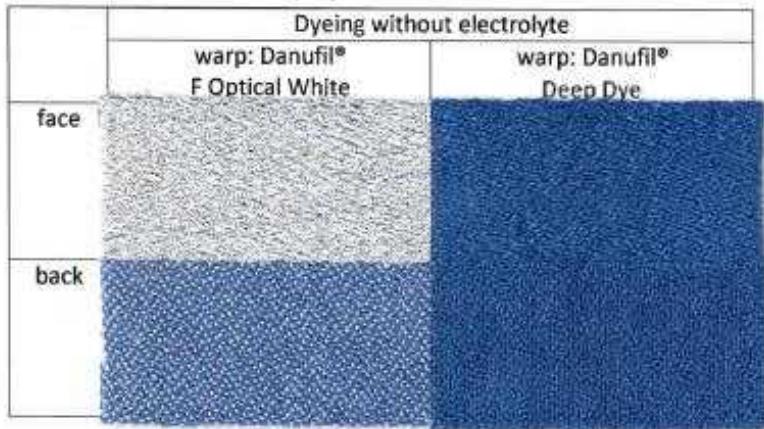
Danafil® F Optical White X Danafil® Deep Dye (cationic viscose fibre)

Dyeability with reactive dyes

Satin 5/1, weft: Danafil® F Optical White



Satin 5/1, weft: Danafil® Deep Dye





- **na bázi Bio** (použité materiály nekonkurují produkci potravin)
- **Vegan** (bez živočišných materiálů)

MESITOL® Bio-Fix

Bio a vegan dokončování pro PAD a směsi

neobsahuje Bisphenol S, Bisphenol F, fenol a formaldehyd,
splňuje GRS a bluesign® USDA certifikováno - získal označení BioPreferred

BAYGARD® LTR 01

F-free hydrofobační prostředek pro celulózu a směsi

na bázi bio (použité materiály nekonkurují potravinářské produkci) velmi dobrý
trvalý efekt USDA certifikováno – získal označení BioPreferred výrobek

BAYPROTECT® Bio-CL

Přípravek pro ochranu PA plavkovin a koberců vůči chlóru

obsah biosložky 87%, Prevence poškození roztoky chlornanu sodného,
ochrana proti špinění a silně oxidativním přípravkům

TANEDE® ZWD

Redukční přípravek bez obsahu síry pro alkalické redukční čištění disperzních vybarvení

obsah biosložky: 85%, redukční čištění vybarvení a tisku na PES a PES/cell,
redukční bělení PAC/Ba, vlny, PA a PA/elastan. Velmi účinný pro čištění aparátů

TANAFINISH Bio-DRY

Bioprodukt pro řízený transport vlhkosti

Obsah biosložky 87%, vynikající efekt na synt. materiálech, stabilita 30x praní

EDOLAN® Bio

Řada pojiv na bázi Bio-polyuretanu a akrylátu

30–70 % bio-složky, pro základní a povrchový zátěr, různá tvrdost

TANAJET™ Bio-Switch

Náhrada močoviny pro aplikaci v reaktivním a kyselém tisku

PERSOFTAL BK conc

Aviváž pro celulózové materiály a jejich směsi

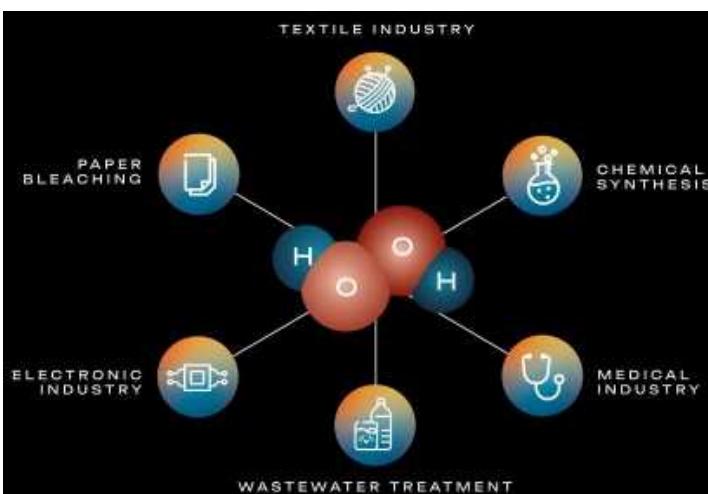
73% bio-based ester-quat



HYPER – An electrochemically produced oxidizer for modular, onsite generation of **HYdrogen PERoxide** (from 1st Jan 2023, 48 months)



Call: HORIZON-CL4-2022-TWIN-TRANSITION-01
(CLIMATE NEUTRAL, CIRCULAR AND DIGITISED PRODUCTION 2022)



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Project number: 101091915

Project Full Title: SUSTAINABLE MEMBRANE DISTILLATION FOR INDUSTRIAL WATER REUSE AND DECENTRALISED DESALINATION APPROACHING ZERO WASTE

Project Acronym: MEloDIZER

Topic: HORIZON-HLTH-2021-DISEASE-04-04

Type of action: HORIZON-CL4-2022-RESILIENCE-01-14

Granting authority: European Health and Digital Executive Agency

Start date: 01 December 2022

Duration: 48 months

EU Contribution: 7.0007.470,74



HORIZON-CL4-2022-RESILIENCE-01

INOTEX input:

Facilitation of textile finishing plants wastewater reuse by:

- **ECO-DYEING** – cationization TEXAMIN ECEnew
Significant increase of dyebath yield/WW decoloration, dyeing with re-dyes without salt
- **Enzymatic modification of PES** TEXAZYM PES
hydrophilicity, antistatic effect - elimination of alkalinity
- **Enzymatic pretreatment** of cotton and bast fibres TEXAZYM SC
NaOH replacement



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Submitted and prepared projects

- **Enzymatic processing of hemp fibres for composites**
CORNET – EnTreHeat: Enzymatic Surface Treatment of Biogene Heavy Tows (bHT) for use in High-Performance Composites (WNR, CLUTEX, FIBRE, STFI, INOTEX)
- **FIR heat reflection** – HUBORA – Multifunctional textiles reflecting the heat radiated by human body: (SINTEX, INOTEX, TUL)
- **Evaluation of AV effect** – ANTIVIR methodology of assessment of antiviral properties of textile materials (TZÚ, INOTEX, VÚVeL)
- **Bio-based finishing systems** and multifunctional effects BioCIRC (INOTEX, Intercolor, SINTEX)
- **Finishing and dyeing by spray technique** – a controlled minimum product/dyes application, doble-side effects, process speed up, minimum content of chemicals and water (drying) – cutting of energy consumption
- **Reduction of microplastic pollution** (construction, processing, technological steps conjunction, new wastewater treatment technologies.)

Follow us to search new ways from idea to products

*Innovation and technology transfer
enterprise for textile finishing mills*

- research, production and application of Textile Auxiliary Agents
- dyes and colour-matching services
- research and optimization of finishing processes and new high added value products
- small-scale production of accessory machinery equipment
- small-volume textile finishing/coating
- textile testing and analytical lab, eco-services and consultancy
- participation in international research programmes and EU expert groups



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innovation from the source ...

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