

CLUTEX PROJECTS (duration 2012-2014)

Textiles for special purposes

Research, development and verification of application technologies for preparation of new types of multifunctional textiles determined for specifically defined technical end-use applications.

ECOFLAME

Research, development and verification of processing and preparation of multifunctional flame-retarded protective textiles oriented to achievement of high safety, maximum wearing comfort, health and environmental compatibility.

ADAPTEP

Complex assessment of different approaches to achieve thermo-adaptive textiles with barrier parameters determined for clothing and technical applications.

NEW MATERIALS

Research, development and verification of processing and preparation of new types of textiles using suitable constructions and weave techniques and finishing processes to achieve new properties of the textiles (combination of materials, weaves and layering of textiles using nanotechnologies and other innovative processing technologies) incl. ready-made preparation. The aim is the innovation in the area of end-use parameters – appearance, wearing comfort, maintenance and disposal processes.

COLOURISTICS

Research, development and verification of utilization of modern communication systems for digital colouristic data transfer and colourmatching service – agreement between lab and industrial-scale dyeing to improve and speed up the communication between producer and customer incl. development and verification of ink-jet printing technology for controlled deposition of shape- and space-specified ultrathin layers of chemicals and compounds enabling to provide materials with new functional properties. Development of warp printing technology with original patterns application.

BIOTECHNOLOGIES FOR TEXTILES

Research, development and verification of utilization of new types of textile materials based on biopolymers and natural renewable resources for processing of textiles by ecofriendly finishing procedures using biotechnologies and cleaner production technologies.