

Nanomaterials offer interesting finishing opportunities to textiles, but what about the risks of nanomaterials to human health and the environment?

The aim of EcoTexNano is to improve the environmental performance of best innovative solutions in the field of technical textiles incorporating nanoparticles. Environmental, health and safety impacts will be assessed in manufacturing operations, encouraging the integration of green technologies.

Project outputs

- **LCA** of nano-textiles and conventional finished textiles
- **Risk assessment** of nano-textiles and conventional finished textiles
- **Proposal for updating** the **BREF** for textile industry, **REACH** and other environmental EU policy
- Demonstration of **pilote-scale trials**
- Design and development of **EcoTexNano tool**

▷ Adaptation of nanofinishes to existing machinery in textile mills

Nano-finishes conferring { Antibacterial
Flame retardancy
Soil repellency
UV-protection } properties

▷ Characterisation and validation of nanofinished textiles

▷ Implementation of BAT and good practices obtained as results from LCA and Risk Assessment

PILOT TRIAL TESTS
performed in Italy and Spain



Innovative web-based tool to promote the safe use of nanomaterials in textile finishing



<http://www.life-ecotexnano.eu/>

EcoTexNano is coordinated by LEITAT Technological Center, leading a consortium formed by Piacenza Cashmere, Vincolor SA, Itene and Centexbel

