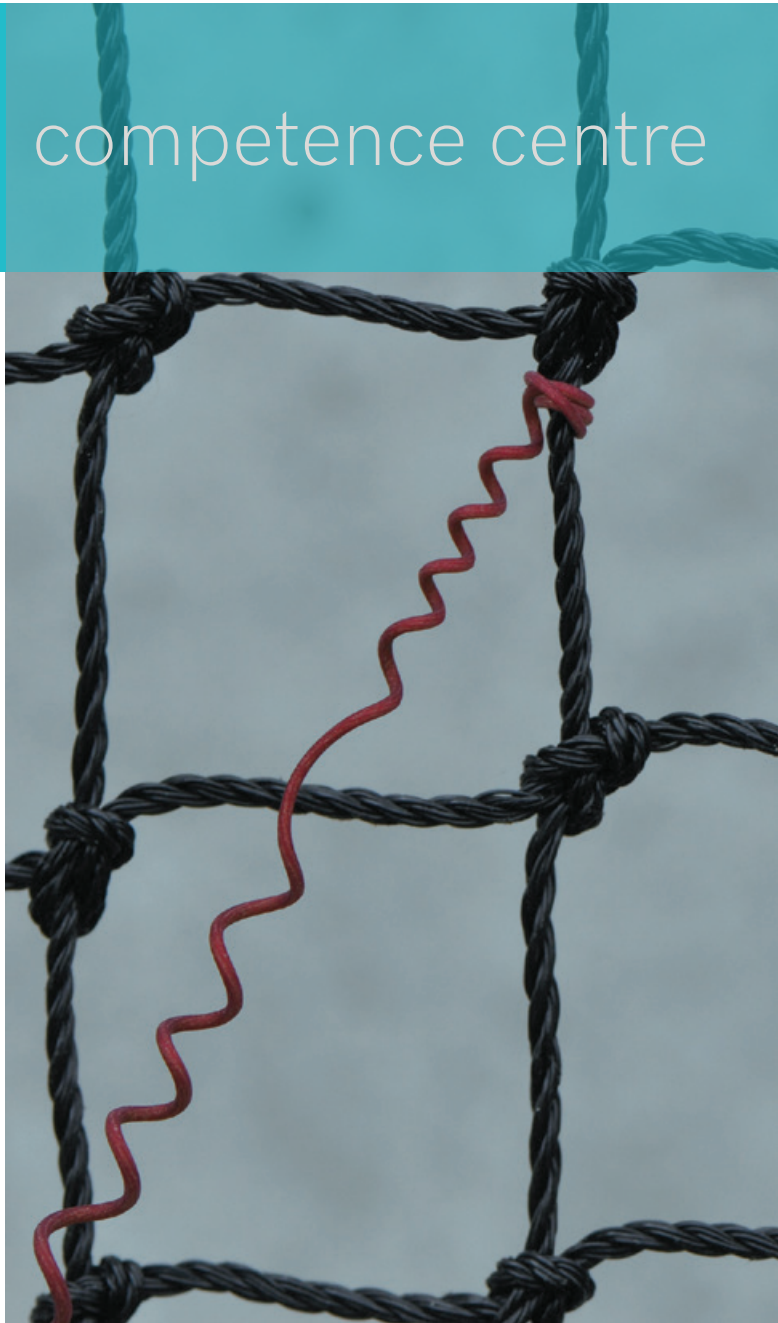
textile

competence centre

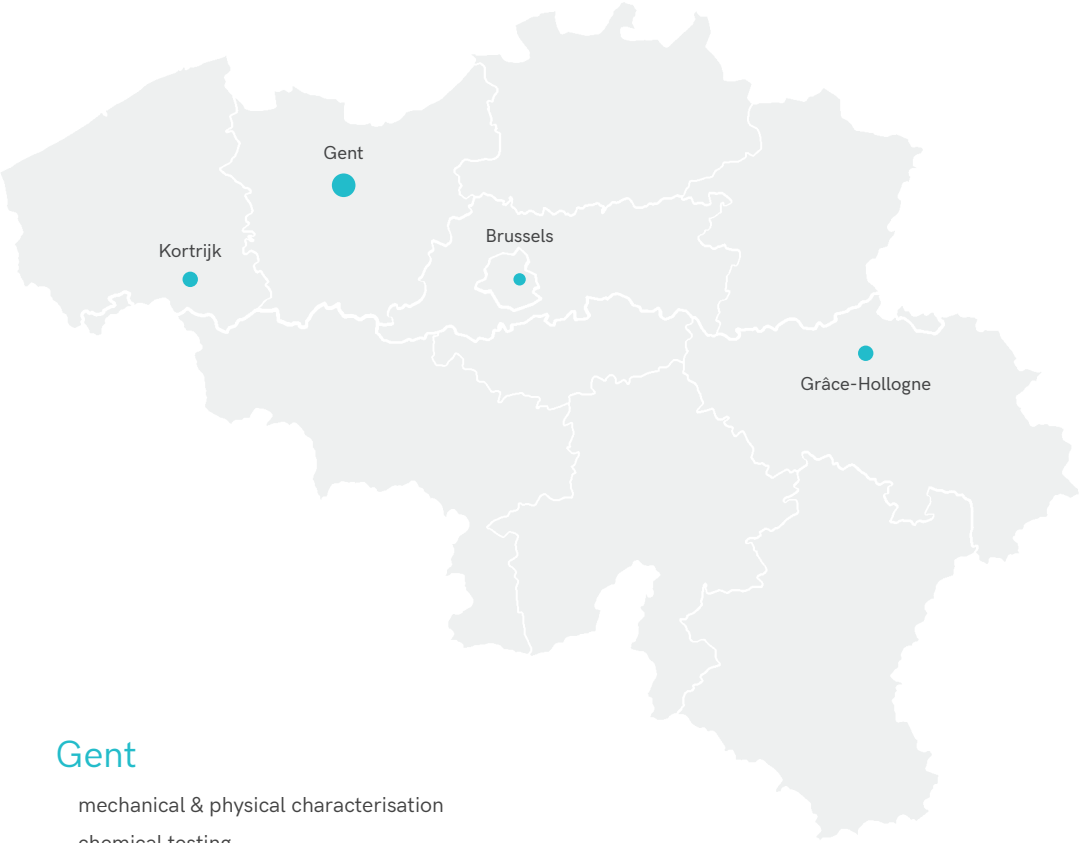
at the service of the industry

CEN
TEX
BEL



VKC

LABORATORIES AND PLATFORMS



Gent

- mechanical & physical characterisation
- chemical testing
- burning behaviour lab
- textile coating & finishing platform

Grâce-hollogne

- physical characterisation
- microbiological & cytotoxic assessments
- knitting & braiding platform

Kortrijk

- plastic product testing and polymer characterisation
- polymer extrusion platform
- composite & plastic processing platform
- additive manufacturing

TESTING

056-TEST
056-PROD

equipment

state-of-the-art lab equipment

ISO 17025 accredited labs, specialized in the evaluation of the mechanical, physical, chemical, microbiological properties and burning behaviour of textiles

expertise

optimisation of test methods

prestandard research

TECHNOLOGY FIELDS

Functional Thermoplastic Textiles

formulation of (bio)polymers, polymer blends and recyclates with functional additives

compatibilisation recycled polymers and polymer blends

further processing including fibre-reinforced composites and 3D printing (additive manufacturing)

multiple thermoplastic textile developments for new markets

Textile Functionalisation & Surface Modification

material development for optimised textile properties

matching performance and legislative requirements

optimising sustainable textile processing: UV-LED curing, hotmelt, plasma technology

bio-sourced additives

creating energy harvesting and storing textiles

exploring market opportunities

Health, Safety & Security

hygiene and barrier functions of medical textiles

advanced protection and comfort for enhanced safety equipment

biocompatible materials for medical applications

Plastics Characterisation, Processing & Recycling

material characterisation: identification of properties and processability

industrial valorisation of biopolymers

eco-friendly functionalisation

polymer recycling and compatibilisation

RESEARCH PROJECTS

collective research

projects financed by regional, federal & European authorities

R&D & pre-standard research projects and studies

steered by a consortium of industrial and scientific partners

research results : property of Centexbel but disseminated to the consortium partners/industry

private research

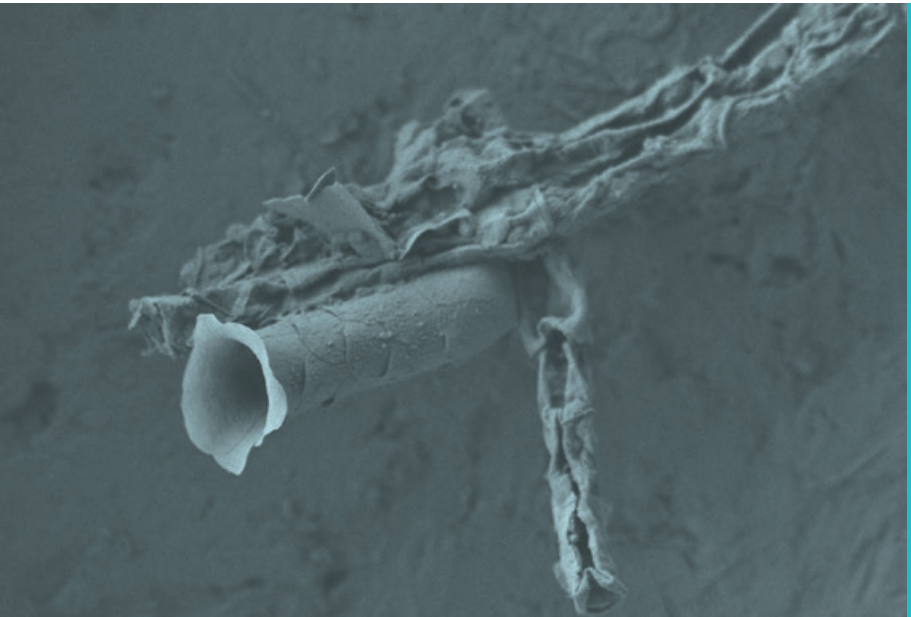
small, medium-sized and large private research projects

financed by regional, federal and European authorities or without funding

on demand of the company

research results : property of the company

- close to industrial needs and opportunities
- innovation in processes
- innovation in products
- sustainability



KNOWLEDGE TRANSFER

Technological consultancy

medical devices, health;, non-wovens, coating & surfaces, technical textiles & clothing, yarn engineering, clothing textiles, floor and decorative wall coverings, sustainability

Innovation consultancy

factory of the future, new business models, smart materials, business systems

Training

seminars, workshops, international conferences, vocational training

Information hub

patents (IPR), product and test standards, legislation (product safety, REACH, environmental legislation…), communication tools

PRODUCT & PROCESS CERTIFICATION

CE marking (notified body # 0493)

PPE

building products: floor & wall covering

marine equipment

OEKO-TEX®

STANDARD 100 by OEKO-TEX®	textiles without harmful substances
LEATHER STANDARD by OEKO-TEX®	leather products without harmful substances
STeP by OEKO-TEX®	Sustainable textile production
ECO Passport by OEKO-TEX®	sustainable textile chemicals
MADE IN GREEN by OEKO-TEX®	consumer products and semi-finished products made from materials tested for harmful substances and manufactured by using environmentally friendly processes and under safe and socially responsible working conditions.
DETOX to ZERO by OEKO-TEX®	elimination of hazardous substances

GUT

eco-friendly carpet production

QA-CER

certification system for recycled materials

CREATE CONNECT INSPIRE SOLVE

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