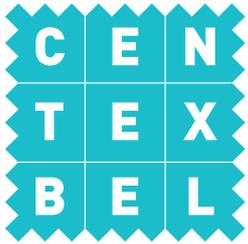


# nonwovens



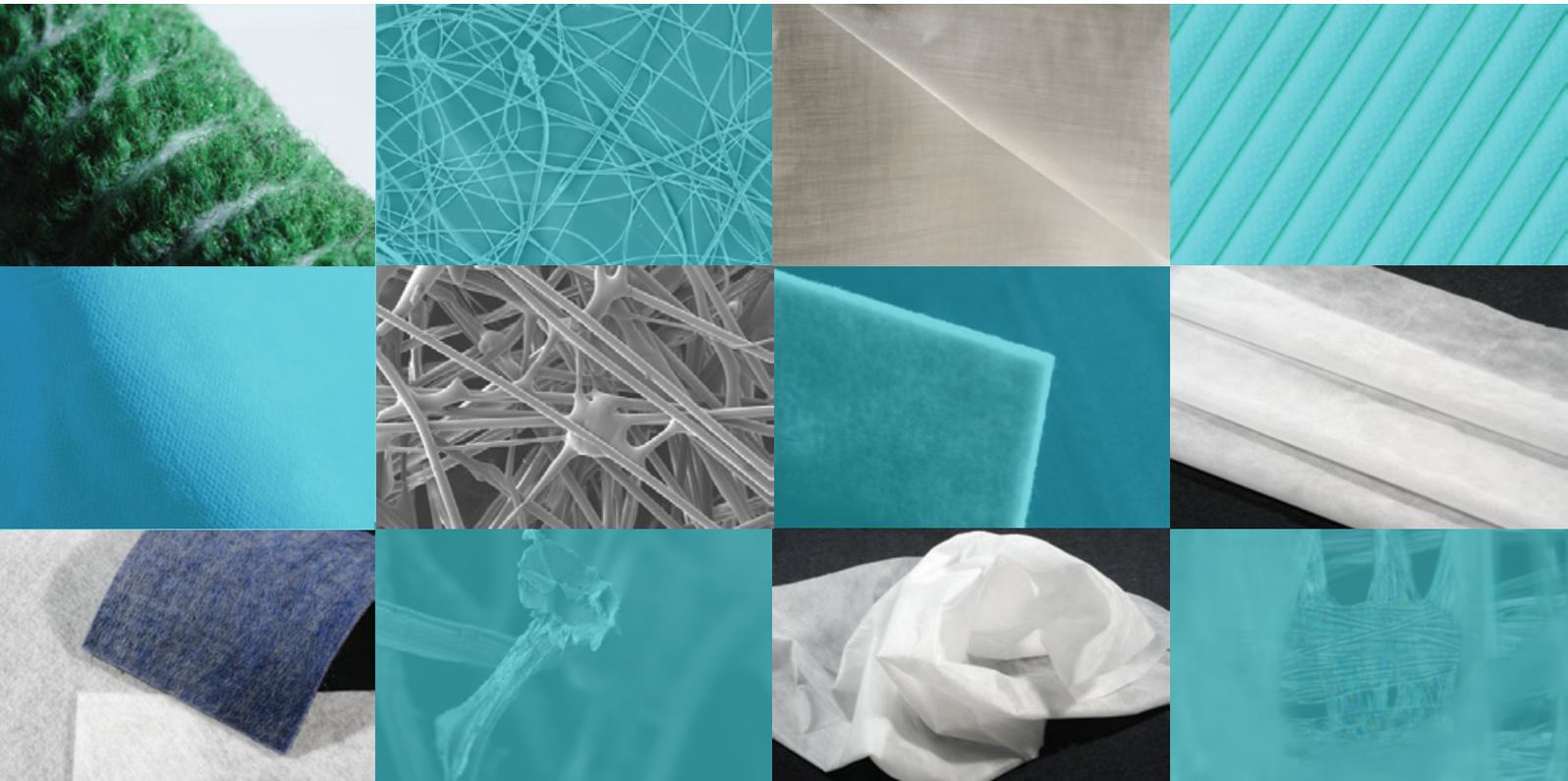
## high-end materials



**N**onwovens include all textile fibre materials that are not produced by conventional textile techniques such as weaving, knitting, tufting, or braiding. Although the production of textile fibres and fibre webs or sheets usually takes place in two separate steps, they may be integrated into one single process.

The (blended) textile fibres in the web are bonded in a mechanical, hydraulic, thermal and/or chemical way. Varying heights in nonwoven structures may be obtained by superposing several nonwoven layers or by needling or spunlacing.

Nonwoven sheets or webs can be functionalised, coated or laminated in the same way as conventional textile fabrics. Nonwoven materials are used in various applications including: agriculture, civil engineering, road building, automotive, bedding, clothing, health care, hygiene...



## research & development

- development and characterisation of fibres for nonwovens
- yarn extrusion
- electrospinning
- nonwoven prepreps for composites
- functionalisation of nonwovens and surface treatment
- incorporation of smart materials and/or electronics
- nonwoven application fields: health & safety, protection, civil engineering and road construction, filtration, isolation...

## Consultancy

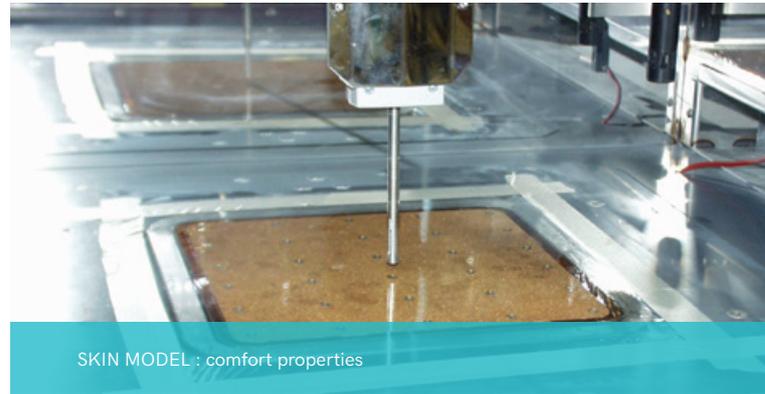
- development of new types of fibres for nonwovens
- process control during nonwoven production
- functionalisation of nonwovens
- new applications of nonwovens
- assembling and joining of nonwovens with other materials
- nonwoven recycling



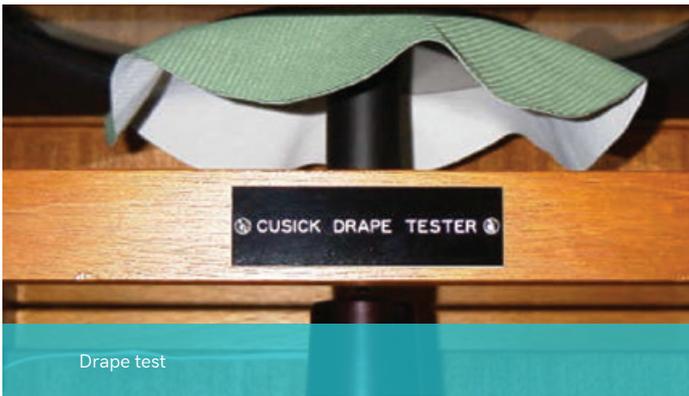
Burning behaviour test



QUV ageing test



SKIN MODEL : comfort properties



Drape test



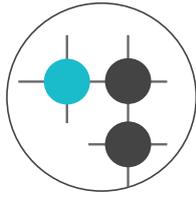
Microscopic analysis

## testing

- ageing behaviour (QUV, light, temperature, ozone)
- composition (fibres, adhesives, additives)
- porosity
- physical & mechanical properties
- burning behaviour
- thermal behaviour
- comfort properties  $R_{et}$  en  $R_{ct}$
- acoustic properties
- electric properties: conductivity, antistatic behaviour
- detection & determination of heavy metals, substances of very high concern (REACH conformity)
- microbiology
- hygiene
- OEKO-TEX® certification tests



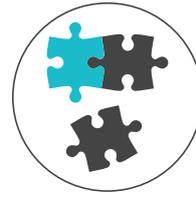
CREATE



CONNECT



INSPIRE



SOLVE

**C E N**  
**T E X**  
**B E L**



nonwoven

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