

VliesComp – Nonwoven innovations for resource-efficient and cost-optimised, semi-structural composite structures

Problem / Motivation

- Process development and production of novel, cost-effective and multifunctional nonwoven materials for the fibre composite sector
- Creation of a solid database on the achievable properties of the developed nonwovens as well as the establishment of digital approaches in component design and manufacturing implementation
- Technical, ecological and economic assessment of utilisation potentials
- Demonstration of usability in specific industrial applications in the fields of electric machine design, machine tool manufacturing, and medical technology

SIEMENS

INVENT

TENOWO
NONWOVENS

Solution

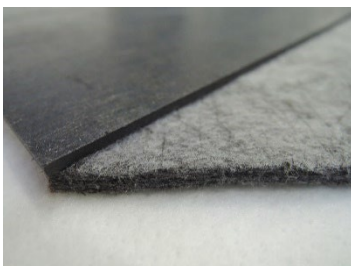
- Definition of requirements for materials, processes and components
- Development of material and process technology for hybrid nonwovens
- Technology development for digital value creation
- Demonstration of technology usability in terms of ecology and component realisation

Project Launch

11/2020

Project Partner

Siemens AG, Erlangen
Invent GmbH, Braunschweig
Tenowo GmbH, Hof



Carbon hybrid nonwoven and organic sheet



Carbon nonwoven plant at STFI

Acknowledgement

We would like to thank the Federal Ministry for Economic Affairs and Climate Action for funding the research project VliesComp (Reg. No. 03LB3005D) within the funding programme "Lightweight Construction Technology Transfer Programme (TTP LB)".

Supported by:



on the basis of a decision
by the German Bundestag