

We embroider
Innovationen

smart textiles - new functions
easy to integrate



PFA-isolated steelbraid 275 x 0,012mm
with built in NTC-sensor



3-D fiber structure - through an arbitrarily
carrier substrate that is applied at different
materials

smart textiles - new funktions - easy to integrate

antenna structures & textile sensors at exact positions

Because of the precision and repeatability it is possible to manufacture UHF-RFID antennas and textile sensors with a consistent high quality.

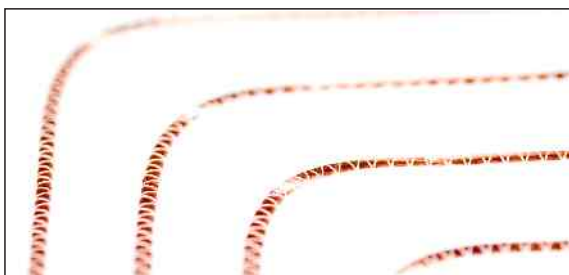
Thereby we use the key advantage of embroidery technology - the essential freedom to choose and use any material. We manufacture finest strands (up to 0,04mm), coated threads or other sensitive materials. Materials that are hard to handle or hard to use with other manufacturing techniques.

advantages of our elements:

- textile properties
- highly conductive
- steady & long-lasting
- washable
- efficient & economically producible

examples of application:

pressure sensors, electrostimulation, temperature sensors, moisture sensors, medical sensors für EEG, EKG, antennastructures among other RFID, EMV filter, security textiles, inductive solutions



composite applications: composites in 3D

We use the tailored-fibre-placement (TFP) to manufacture fiber composites. Thereby the bundled fiber strands (rovings) are [target-oriented] put at a carrier substrate.

advantages of this production method:

- near-net-shape fabrication of preforms
- high level automation
- optimale fiber orientation between 0° and 360°
- very high stability/stiffness of the elements
- weight reduction
- local strengthening possible
- fabrication almost without defectives
- no special costs for tools
- high-volume production possible

The Embro company is able to manufacture almost every material - from aramid fibers, fiberglass to carbon fibers. Even combinations of different materials are achievable.



Do you want more informations?

If you have any questions, do not hesitate to contact us.

Please arrange an appointment - telephone + 493744 - 18 42 29 -10