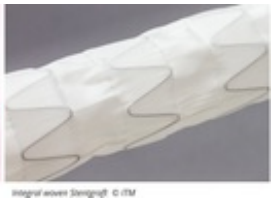
Fiber-Based Biomedical Technology

Institute of Textile Machinery and High Performance Material Technology (ITM) at Technische Universiät Dresden has extensive experience and expertise in basic- and application-oriented research regarding textile-based biomedical engineering and medical textiles, along with the required equip-ment.

Competences / Services:

- Research and development of fiber-based biomedical technologies and medical textiles in an GMP clean room environment
- Product development (biomaterials, yarns, base structures, scaffolds, implants)
- Machine design (additive manufacturing, solution spinning, woven and braiding technology)

Biocompatible materials

- Biodegradable polymers (chitosan, silk, collagen, polylactide,)
- Bioactive ceramics (hydroxyapatite, tricalcium phosphate, bioglass,)
- Bioinert metals (titanium, shape-memory-alloys,)

Fiber-based medical products

- Stentgrafts and Heart valves
- Ligament and tendon implant
- Ear drum implant
- Implants for bone and osteochondral regeneration
- Real-time wound monitoring
- Drug delivery systems

Kontakt

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