

Plain weave multilayer fabric

Service Offering

- Weave development in the field of weaving and braiding
- Final contour near-load design of complex multi-dimensional woven structures
- Processing of sensitive inorganic materials and organic high-performance and standard materials
- Qualitative and quantitative testing methods for characterization of fibers, textile structures and components
- Sample production

Contact

Prof. Dr. Frank Ficker
Phone +49 921 78510 724
frank.ficker@isc.fraunhofer.de

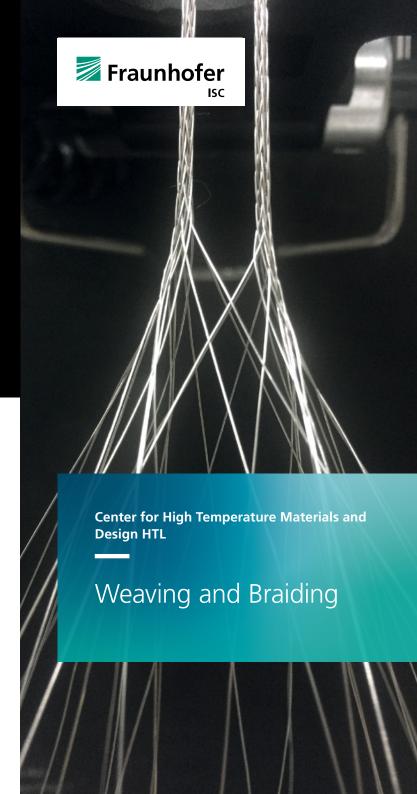
Silke Grosch Phone +49 921 78510 724 silke.grosch@isc.fraunhofer.de

Fraunhofer Application Center for Textile Fiber Ceramics TFK Kulmbacher Straße 76 95213 Münchberg

Fraunhofer Center for High Temperature Materials and Design HTL Gottlieb-Keim-Straße 62 95448 Bayreuth www.htl.fraunhofer.de

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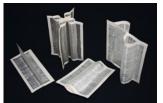






Weaving and Braiding

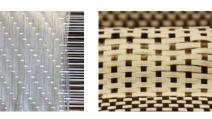
Fraunhofer Center for High Temperature and Materials HTL and its Application Center for Textile Fiber Ceramics TFK are working on textile manufacturing processes for 2D and 3D preforms made of inorganic and, in particular, ceramic materials. Woven and braided structures are the first choice for textile preform development from inorganic materials.



Ceramic semifinished products Rope braid

Multilayer fabric

- e.g. for dental prostheses
- Braids for branched stents
- Braids for textile chains and ladders
- Braids for knotless net constructions
- Tubular, flat, packing, spiral, core, sheathing, branching braids and combinations thereof





Double rapier weaving machine with single thread control

Equipment

In our laboratories, a wide range of equipment is available for a wide variety of textile production processes:

- Double rapier weaving machine with single thread control
- Jacquard weaving machines
- Shaft rapier weaving machine
- Shaft air-jet weaving machine
- Terry weaving machine
- Leno weaving machine
- Ribbon weaving machine
- Semi-automatic laboratory looms
- Miniature variation weaver for particularly small and fine fabrics
- 4x4 variation weaver
- 8x8 variation weaver
- Radial weaver