Innovative and tailor-made: **SAERTEX** fabrics made of glass fibre, carbon and aramid, also known as NCFs (non-crimp fabrics), with more than 2,500 article designs. Depending on the fibre type, surface weight and angle combination, various mechanical characteristics can be achieved. **SAERTEX** products are individually configured for our customers and optimally adapted to a range of processes: infusion, RTM, pultrusion, prepreg, compression, etc.

1. **Fibre, weight and orientation are ideally adjusted**
   The positions are specifically aligned to the ideal quantity and orientation in the loading direction // Angles of between -22.5° and +22.5° are possible // 0° position is also possible.

2. **Stretched fibres for optimum mechanical strength**
   Absorption of the highest possible loads through stretched fibres // Reduced component weight while maintaining equal mechanical properties or even a higher component load with the same component weight.

3. **Individual drapability and outstanding permeability**
   The drapability of the **SAERTEX** fabric is tailored to customer requirements and exhibits outstanding permeability // Optimisation and enhancement of the **SAERTEX** fabrics for infusion processes.

4. **Cost savings due to fewer layers**
   Reduction of the manufacturing costs (fewer layers are required thanks to the higher area weight of the individual layers).

5. **Resin compatibility**
   **SAERTEX** fabrics are optionally compatible with various resin systems: EP / UP / VE / PUR / PP / PA and caprolactam.
BASIC CONSTRUCTIONS

UNIDIRECTIONAL FABRICS

Construction: 0° or 90°

BIAXIAL FABRICS

Construction: ±45°

TRIAXIAL FABRICS

Construction: ±45°/0° or 90°/±45°

QUADRAXIAL FABRICS

Construction: ±45°/90°/0°

TAILOR-MADE FABRICS

Construction: individually available on request

Comparison between NCF and woven textile

Non-crimp Fabric

Woven textiles

Non-crimp fabric

Crimped fibres

Facts & figures

Suitable methods:
Infusion, RTM, compression, winding, SMC, T-RTM, pultrusion, prepreg, hand laminating, etc.

Reinforcement materials:
Glass, carbon or aramid fibres, special fibres, hybrid fabrics

Max. width:
3810 mm, individual tapes on request

Resin compatibility:
Epoxy resins // Unsaturated polyester resin // Vinylester resin // Polyurethane // Polypropylene // Polyamide and caprolactam, etc.

Certificates:
Type approval DNV GL

Max. surface weight:
4000 g/m²

More information about our standard fabrics can be found at www.saertex.com/downloads

SAERTEX® Registered trademark (more information at www.saertex.com)