



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.

Fiber, weight and orientation are ideally adjusted

The positions are specifically aligned to the ideal

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.

Stretched fibers 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.

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.

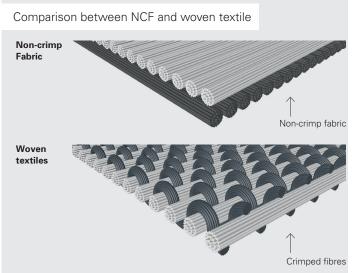
Cost savings due to fewer layers

Reduction of the manufacturing costs (fewer layers are required thanks to the higher area weight of the individual layers).

Resin compability

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

# Structure of the SAERTEX® NCF system 90°\* 45°\* \* Angles of between -22.5° and +22.5° are possible.



### **BASIC CONSTRUCTIONS**

### UNIDIRECTIONAL FABRICS



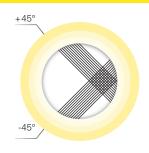
Construction: 0° or 90°

# BIDIRECTIONAL FABRICS



Construction: 90° / 0°

### BIAXIAL FABRICS



Construction: ±45°

### Facts & figures

**Suitable methods:** Infusion, RTM, compression, winding, SMC, T-RTM, pultrusion,

winding, SMC, T-RTM, pultrusion, prepreg, hand laminating, etc.

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

Max. width: 3,810 mm,

individual tapes on request

Resin compatibility:
Epoxy resins // Unsaturated
polyester resin // Vinyl ester resin
// Polyurethane // Polypropylene //
Polypropylene // Polypropylene // Polypropylene // Polypropylene // Polypropylene // Polypropylene

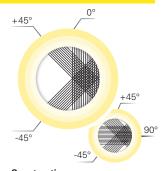
polyester resin // Vinyl ester resin // Polyurethane // Polypropylene // Polyamide and caprolactam, etc.

Certificates:

Type approval DNV GL

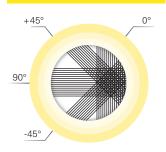
Max. surface weight:
4,000 g/m²

### TRIAXIAL FABRICS



Construction:  $\pm 45^{\circ}/0^{\circ}$  or  $90^{\circ}/\pm 45^{\circ}$ 

## QUADRAXIAL FABRICS



Construction: ±45°/90°/0°

### TAILOR-MADE FABRICS



**Construction:** individually available on request

