



DAME DESIGN AWARDS

METSTRADE 2024

TAILOR MADE
COMPOSITE MATERIALS

STRATOS

The new non-stitched
multiaxial Non Crimped Fabrics.

A new resource for
marine manufacturing.

All the advantages
of NCF fabric,
without stitching.



The innovation

NCF fabrics are used in several sectors, including the nautical one, where they are a favoured component due to their mechanical properties and aesthetic value.

Traditionally NCFs are made of several layers of fibres, arranged at different angles and then stitched together: a process which, however, inevitably alters its mechanical features.

For these reasons, Angeloni Group creates STRATOS, a new multiaxial fabric in which the layers are held by a special adhesive that grants the same stability of stitching...but overtaking its limits.



Design

STRATOS proves to be a high-quality product also from an aesthetic point of view.

The 'print through' effect (the typical shrinkage appearing on the surface of a moulded component) is indeed eliminated.

The surface appears perfectly flat, with continuous and perfectly aligned fibers, making STRATOS a strategic choice for the production of painted components.



Mechanical Improvement

The absence of stitching improves the mechanical features of the fabric:

- no mechanical properties reduction due absence of stitching;
- perfect alignment of the layers, for performance improvement;
- low resin absorption and an improved resin flow;
- uniform impregnation.



Materials

STRATOS is available in different materials and weights.

CARBON FIBRES

GLASS FIBRES

ARAMID FIBRES

NATURAL FIBRES (Linen)

STRATOS can be produced in weights from 100 to 400 g/m².



Processing

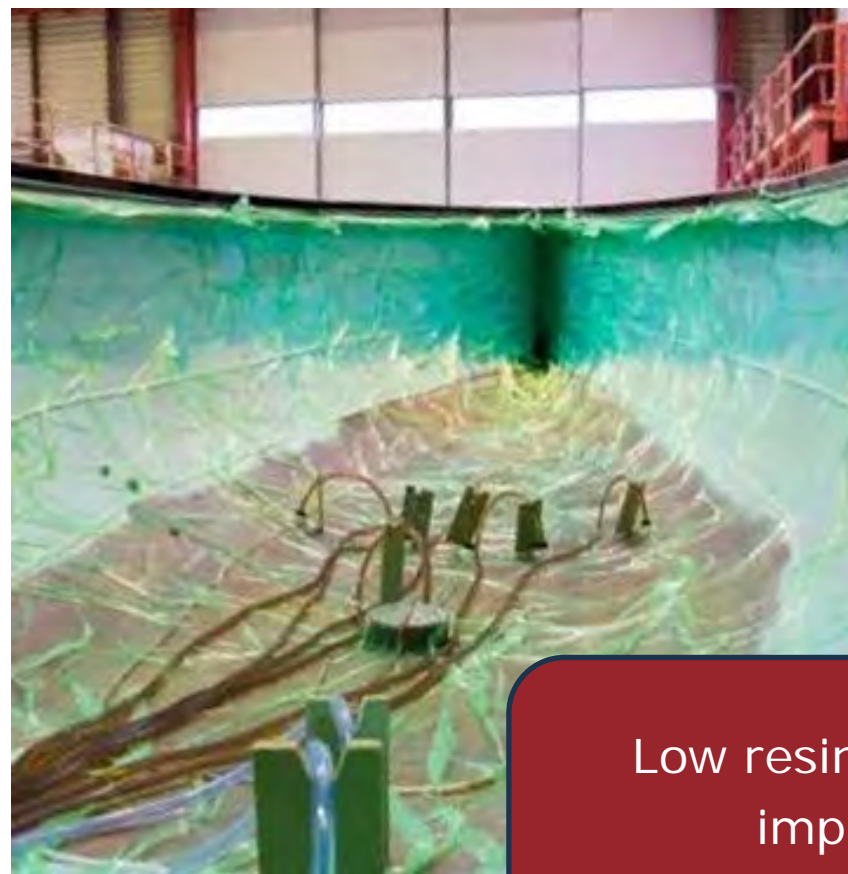
STRATOS is suitable for different process, always offering the same quality of the finished product.

STRATOS is also distinguished by its ease and safety of use by the operator.

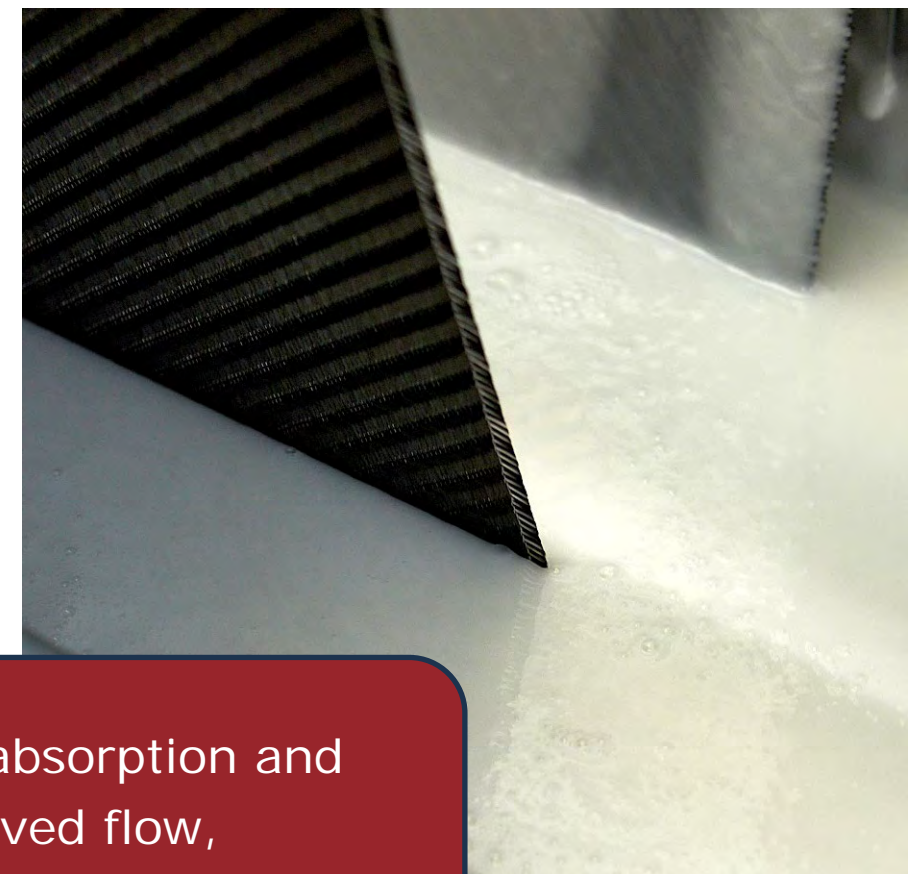
RTM PROCESSING



INFUSION



PREPREG



Low resin absorption and improved flow, for an uniform impregnation.

Applications

Disclosed in a world premiere in Paris at the JEC 2024 fair just 6 months ago, STRATOS has already received great interest from various sectors, due to the wide range of its possible applications.

AUTOMOTIVE



MARINE



SPORTING GOODS



Enviroment

STRATOS is produced in Selcom (company of Angeloni Group) plant.

The plant, located in Treviso (Italy), has implemented significant initiatives to reduce its environmental impact, summarized by the "3 R": **REUSE**, **REDUCE**, **RECYCLE**.



WASTE REUSE

Selcom also recovers
100% of the waste produced
during the production phases.

ENERGY CONSUMPTION REDUCTION

With 8.000 square meters of
photovoltaic panels, Selcom plant is
80% energy self-sufficient.

RECYCLABLE MATERIALS

15% of Selcom's production is based
on natural fibres.
Only recycled materials are used for
packaging.



THANK YOU