



**METEX**®

c o m p o s i t e s

STRENGTH. SUPPORT. SOLUTIONS.

# 01

## ABOUT US

### Company Profile

**METYX Composites** was founded in 2003 as a division of Telateks A.S, a leading textile manufacturing company in Turkey since 1940. From the beginning, METYX has used its knitting expertise to develop and produce technical textiles using E-glass, H-glass, carbon and aramid fibres. These include; multiaxial reinforcements, RTM reinforcements and woven fabrics.

Production first started in Istanbul at the Tuzla factory. Today METYX has three state-of-the-art production locations, with a second factory in Manisa, western Turkey, and since 2015, a third factory in Kaposvar, Hungary, from where key products and services are now also provided, offering customers a fast delivery service from within the EU.


In addition to manufacturing and distributing a wide range of technical fabric products, METYX has invested in facilities, equipment and highly skilled staff

that enable the business to offer its customers additional added value services.

**Added value services offered include:** laboratory testing, engineering support, consultancy, prototyping, technical training, large scale plug and mould CNC tool making, as well as providing a comprehensive kit cutting service from both Turkey and Hungary, for fabrics, cores and vacuum consumables.

Industries using METYX products today include: wind energy, marine, automotive, transportation, infrastructure, building and construction, and sports and leisure equipment producers.

METYX has grown into a major player in the composites industry, not only in Turkey, but throughout the world via its extensive global distributor network.



**METYX Composites®** is honored to be a preferred supplier of high - performance reinforcements to the composites industry. We take great pride in our worldwide reputation for cutting-edge technology, innovative product offerings, custom services, and unique solutions to solve our customers' composites challenges.

METYX is a highly responsive 'Solutions Partner', offering customers a full package of products and services, with reliable quality and delivery, effectively combining the

strength of its production capabilities with its technical expertise to support its customers and deliver added value solutions.

“We are committed to supplying high quality products and meeting the individual needs of our customers with tailor made solutions that add real value. Our vision has always been to deliver a range of products and services which give our customers a competitive advantage.”

***Uğur Üstünel , METYX Composites Co-Director***



**METYX Composites** manufactures a wide range of high-performance technical textiles including multiaxial reinforcements, RTM reinforcements, woven fabrics, textile vacuum bagging products, and surface veils. Our reinforcements feature the latest technological advancements. They are produced with skilled workmanship and strong attention to detail. Only certified raw materials are used, and all manufacturing processes strictly adhere to demanding ISO 9001 standards, ensuring the highest quality reinforcements to our customers.

## PRODUCTS

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**Multiaxial Product Group**



**RTM Product Group**



**Others**

- Woven Fabrics
- Surface Veils
- Vacuum Bagging Products



# 02

## BRANDED

Products and Services

**METYX Composites** is also an exclusive distributor in Turkey for leading manufacturers of high quality branded products used for producing moulded FRP composite parts. The extensive range of distributed products supplied includes: mold release agents, resins, cleaners, adhesives, core materials, vacuum infusion materials, and RTM equipment / tooling materials.

## SERVICES

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### Core Materials and Fabric Kitting



### Tooling Services



### Others

- Training
- Consulting Services
- Distributed Products



## MARKETS SERVED

Marine | Wind Energy |  
Automotive | Rail | Sports |  
Construction | Engineered  
Structures | Industrial



## Multiaxial Product Group

METYX Composites high-performance multi-axial reinforcements are engineered fabrics consisting of one or more layers of unidirectional fibres. These layers are held in place by a non-structural stitching thread, which is generally a polyester yarn.

### Advantages:

- Wide product range
- Innovative technology
- Flexible production
- Quality you can count on
- Reliable long-term supplier

### Product Range:

- Unidirectional
- Biaxial
- Triaxial
- Quadriaxial
- Combi Mats

*All reinforcements available in E-glass, Aramid, Carbon, and Hybrid forms.*

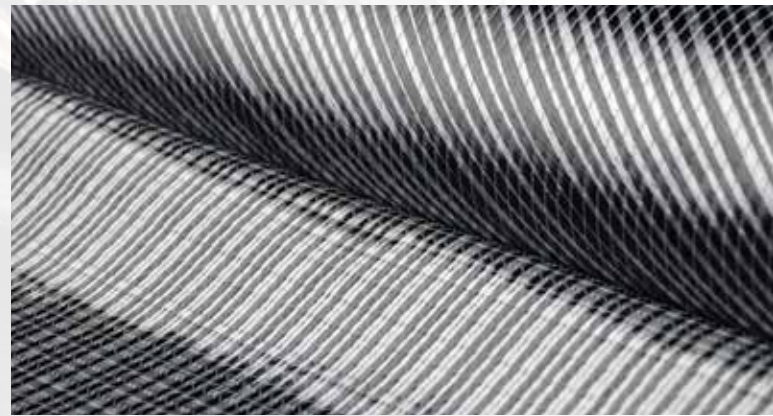


## Multiaxial Product Group

# 03

## PRODUCTS

Multiaxial Product Group



### Carbon Reinforcement Range

**METYX** is your reliable long-term supply partner for the top quality carbon fabrics.

The multiaxial and woven carbon fabrics produced by METYX Composites are high quality reinforcements which provide the superior strength and lightweight properties needed for high-performance end use CFRP applications.

Standard fabrics and tapes, as well as spread tow and customized solutions to meet specific needs are supplied to order.

#### Product Range:

- Unidirectional
- Biaxial
- Triaxial
- Quadriaxial
- Wovens
- Hybrids

*All reinforcements available in the standard and spreaded forms.*

## RTM Product Group

### METYSORE

**Product Range:**

- 200M / 180PP / 200M
  - 200M / 250PP / 200M
  - 300M / 180PP / 300M
  - 300M / 250PP / 300M
  - 450M / 180PP / 450M
  - 450M / 250PP / 450M
  - 600M / 180PP / 600M
  - 600M / 250PP / 600M
  - 750M / 180PP / 750M
  - 750M / 250PP / 750M
  - 900M / 180PP / 900M
  - 900M / 250PP / 900M
- Surface veil, biaxial skin, lighter core options
  - Stitched mats (100 gr/m<sup>2</sup>-1,500 gr/m<sup>2</sup>)

**Main Benefits:**

- High drapeability
- Excellent resin flow
- Wide product range
- Custom widths

### METYSORE MAX

**Main Features:**

- Engineered core sandwiched between two layers of chopped strand mat to help the resin traverse the laminate with maximum speed and precision
- Designed to conform to the shape of the mold



**04**  
**PRODUCTS**  
RTM Product Group



**RTM**  
**Product Group**



· Ideal for series production, large scale projects, products where highly filled resin systems are needed, and flame retardant applications

**Main Benefits:**

- Maximized resin flow
- Reduced fill time
- Decreased fill cost
- Reduced labour
- Increased output
- High drapeability
- Added structural strength and rigidity
- Enhanced quality and consistency

## METCORE FS *(Fire Shield)*

In response to rail sector need for a new material solutions, the R&D department of METYX Composites has developed a new cored glass fibre RTM fabric reinforcement product which meets the new EN standard for the fire protection of railway vehicles. Additionally, METYCORE FS helps converters overcome closed mould processing difficulties often encountered with filled FR resins.

This fire rated reinforcement product is halogen free, providing moulders with all advantages of the existing Metycoremox range, with additional fire retardancy (FR) properties which meet EN 45545 requirements.

**METCORE FS** is also available with special **METCORE MAX** core.

## MARKETS SERVED

Automotive | Rail |  
Construction | Engineered  
Structure | Industrial





**MARKETS SERVED**

**Construction | Engineered Structures | Industrial**

## Surface Veils

**METYX Composites** manufactures a wide range of surface veils for various applications. Surface veils are non-woven, polyester fabrics, used to produce smooth, resin-rich, protective surfaces, mainly in pultrusion and filament winding processes.

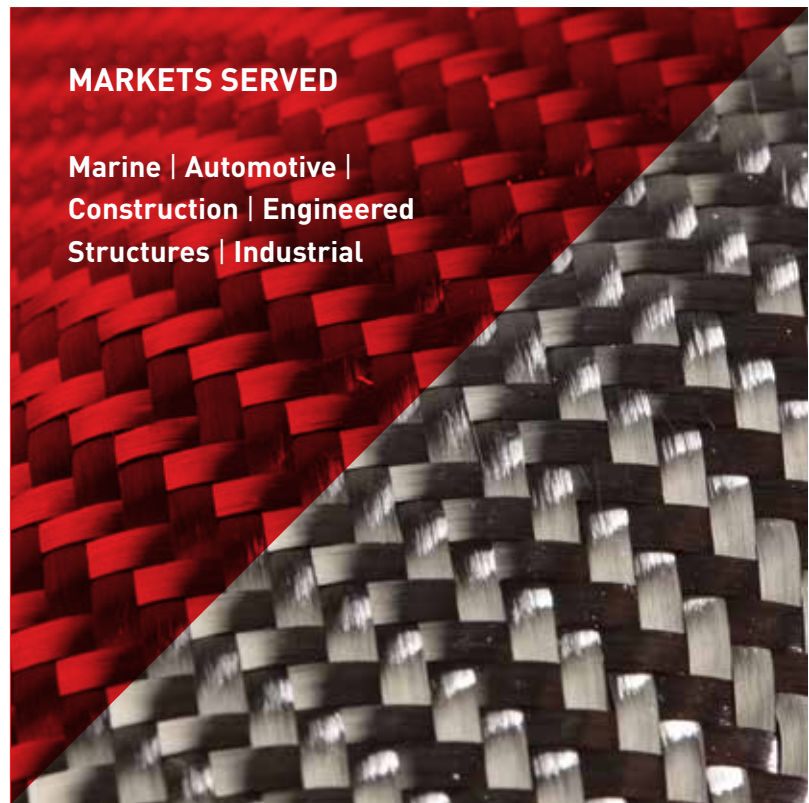
**Main Benefits:**

- Uniform fibre distribution
- Consistent tensile strength
- Smooth, soft surface
- Compatibility with all commonly used resins
- Rapid wet out

## Woven Fabrics

**METYX Composites** woven fabrics are made by inter-weaving continuous fibre rovings to produce biaxial fabrics that can be used with most resin systems. Woven fabrics are typically used in transport, marine, automotive and industrial applications to increase the flexural and impact strength of an FRP laminate.

METYX woven fabrics in sizes up to 350 cm wide are available in E-glass, aramid and carbon fibre options.



**MARKETS SERVED**

**Marine | Automotive | Construction | Engineered Structures | Industrial**





Others

05

PRODUCTS

Others

## Vacuum Bagging Products

**METYX Composites** manufactures a full range of technical fabrics that work together to optimize your vacuum bagging systems and to solve your molding challenges. As an integrated technical textile company, we offer the advantage of one-stop shopping for a full portfolio of superior composites related textile products.

### Peel Ply:

Polyester and Polyamide 6 or 66.  
Washed and heat set. Various widths.

### Breather:

Polyester non-woven felt. Weights available from 150 to 300 gr/m<sup>2</sup>

### Flowmesh:

Knitted polyethylene fabric in widths from 100 to 254 cm.

## MARKETS SERVED

Marine | Wind Energy

## MARKETS SERVED

Marine | Wind Energy |  
Automotive | Engineered  
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## Core Materials and Fabric Kitting

To meet growing demand, METYX Composites continues to invest in 'state-of-the-art' 5-axis NC processing centres capable of the highest levels of accuracy. Both kitting facilities can cost effectively machine balsa wood and all foam core materials including: **PU, PET, SAN and PVC foams**.

A kit cutting service is offered from both Turkey and Hungary, for cores, fabrics and vacuum consumables. All kit designs are fully evaluated by experienced METYX engineers, supported with CAD data, who take into account cost, quality, part geometry, mould lay-up and the manufacturing process being used.

Kits are supplied with full traceability, cut, shaped, and preformed as needed, packed and labelled according to customer specified part reference numbers and manufacturing bills of materials (**BOM**), to ensure shop floor accuracy, efficiency and productivity.





# 06

## SERVICES

Core Materials and Fabric Kitting

**Core Materials and  
Fabric Kitting**



# 07

## SERVICES

Tooling Services



## Tooling Services

### Tooling Services

We provide a complete 'end to end' composite tooling design and fabrication service for both master plugs (patterns) and single or multi-split fibreglass mould tools.

#### 5-Axis CNC Machine

At the heart of our Tooling Centre is a 5-Axis CNC machine for large scale plug and mold production. The superior capabilities of this machine, coupled with the expertise of our industry-leading technical team, ensure first-rate quality and craftsmanship on all tooling projects.

#### Tooling Services

Our innovative Tooling Centre, available to all METYX Composites reinforcement customers globally, provides a value-added service. Our mission is to offer engineering and manufacturing support for plugs, patterns, and high-quality

tooling in a manner that is both efficient and affordable.

Our Tooling Centre provides a real competitive advantage as it has the backing and in-house resources of METYX Composites, not only as a leading manufacturer of reinforcements, but also from the additional services provided, such as kitting, design engineering, consultancy and the full package of raw materials available.

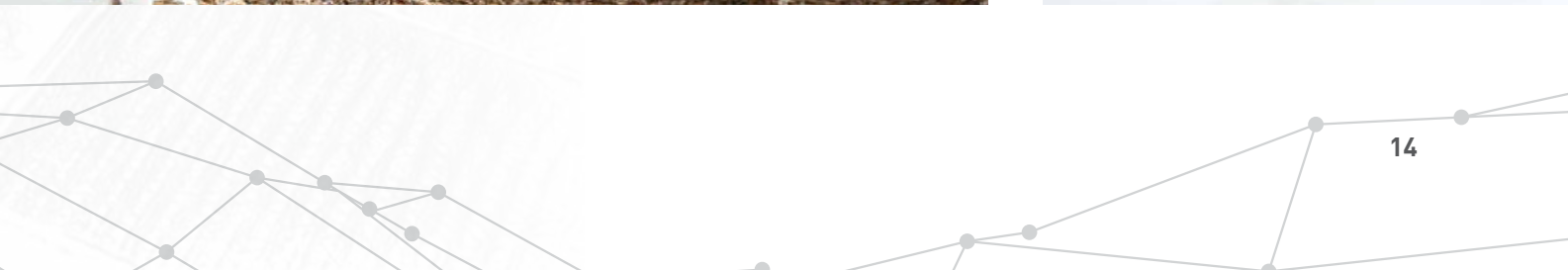
A key objective of the METYX team is to transfer all of these advantages to its highly valued customers.

Total satisfaction is guaranteed, as all potential production challenges are resolved before tooling is delivered to a customer.



**MARKETS SERVED**

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## Training

**METYX Composites** is committed to disseminating composites know-how in the form of formal and practical composites training, both in Turkey and worldwide.

Our signature training event, the METYX Composites Summit, is a bi-annual international technical event held in Turkey. The event attracts industry leaders and composites producers from across the globe to present and discuss the latest innovative approaches and technical solutions for composite part production.

We also conduct RTM and infusion workshops and seminars, and run a training school which offers courses for both RTM and infusion molding processes.







# 08

## SERVICES

Others

### Others

### Consulting Services

**METYX** offers extensive consulting services which cater to the individual requirements of each customer. We provide practical, cost effective solutions to challenging problems and ensure that key customer goals are achieved.

Our added value consulting services include: data analysis, design and processing recommendations, custom made products, and on-site customer training.

The main production technologies where our consulting services help customers, is for RTM and vacuum infusion closed molding, setting up and developing in-house processes and expertise.

METYX offers extensive laboratory and testing services for the domestic and international composites community and performs mechanical tests based on ISO and ASTM standards.



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## MARKETS SERVED

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## Distributed Products

METYX Composites has formed strong distribution partnerships with carefully chosen leading suppliers of latest technology 'branded' products which enhance fabricated part quality and improve production efficiency for customers.

The extensive range of distributed products on offer include: resins, adhesives, release agents, core materials, infusion equipment and vacuum consumables.

All our brands of distribution products supplied are high quality, have a proven track record in use, and come with excellent service and technical support.

# METYX COMPOSITES AROUND THE WORLD

-  Our Production Sites
-  Our Distributors



# METYX®

c o m p o s i t e s

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