c o m p o s i t e s STRENGTH. SUPPORT. SOLUTIONS.

O 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 Composites 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 Composites 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 Composites has invested in facilities, equipment and highly skilled staff that enable the business to offer its customers additional added value services.

These 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 Composites products today include: wind energy, marine, automotive, transportation, infrastructure, building and construction, and sports and leisure equipment producers.

METYX Composites 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 Composites is a highly responsive 'Solutions Partner', offering customers a full package of products and services, with reliable quality and deliv-

ery, 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.

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PRODUCTS

Multiaxial Product Group

RTM Product Group

Others

- Woven Fabrics
- Surface Veil Product Group
- Vacuum Bagging Products



METYX Composites is also an exclusive distributor in Turkey of many superior composites related products such as mold releases, resins, cleaners, adhesives, core materials, vacuum infusion materials, and RTM equipment/tooling materials.

SERVICES

Core Materials and Fabric Kitting

Tooling Services

Others

- Training
- Consulting Services
- Distribution

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Multiaxial Product Group

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

Advantages:

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

Product Range:

- $\cdot \ Unidirectional$
- \cdot Biaxial
- \cdot Triaxial
- \cdot Quadraxial
- · Combi Mats

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





Multiaxial Product Group

Carbon Reinforcement Range

METYX Composites: your reliable, long-term source for top quality carbon fabrics.

Our multiaxial and woven carbon fabrics deliver the superior strength, lightweight properties, and speed your high-end applications require. We are your reliable, long-term source for top quality carbon fabrics and customized solutions.

Product Range:

- Unidirectional
- Biaxial
- \cdot Triaxial
- Quadraxial
- · Wovens
- · Hybrids

All reinforcements available in the standard and spreaded forms.

RTM Product Group METYCORE

Main Benefits:

- · High drapeability
- \cdot Excellent resin flow
- · Wide product range
- \cdot Custom widths

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/m2-1,500 gr/m2)

METYCORE 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



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 labor
- · Increased output
- · High drapeability
- · Added structural strength and rigidity
- · Enhanced quality and consistency

METYCORE FS (Fire Shield)

In response to rail sector need for a new material solutions, METYX Composites R&D department has developed a new cored glass fibre RTM fabric reinforcement product which meets the new EN standard for the fire protection of railway vehicles and helps convertors overcome closed mould processing difficulties often encountered with filled FR resins. This product line is a halogen free product, providing moulders with all advantages of the existing Metycoremax range, with additional fire retardancy (FR) properties which meet EN 45545 requirements.

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

MARKETS RELATED

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Surface Veil Product Group

METYX Composites surface veils are non-woven, polyester fabrics. They are used to produce smooth, resin-rich, protective surfaces, mainly in pultrusion and filament winding processes.

Main features:

- Improved surface smoothness
- · Additional surface protection and durability
- \cdot Reduced surface shrinkage
- · Lower porosity

Product Range:

METYX Composites manufactures a wide range of surface veils for various applications. All of our surface veils are characterized by uniform fiber distribution; consistent tensile strength; smooth, soft surface; compatibility with all commonly used resin systems; and rapid wetout.



Woven Fabrics

METYX Composites woven fabrics are made by inter- weaving continuous fiber rovings to produce biaxial fabrics that can be used with most resin systems. Woven fabrics are typically used in the transport, marine, automotive, industries to increase the flexural and impact strength of laminates.

METYX Composites woven fabrics are available in all major types; e-glass, aramid and carbon fiber.

The company can offer woven glass fabrics up to 350 cm.





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^2

Flowmesh:

Knitted polyethylene fabric in widths from 100 to 254 cm.



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Core Materials and Fabric Kitting

MARKETS RELATED

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Core Materials and Fabric Kitting

METYX Composites has invested and is continuing to invest in 'state-of-the-art' 5-axis NC processing centres with the highest levels of accuracy. The kitting facilities in both centres can cost effectively machine **balsa** wood and all foam core materials including: **PU, PET, SAN and PVC foams.**

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.







Core Materials and Fabric Kitting



Tooling Services



Tooling Services

Tooling Services

METYX Composites Tooling Center is dedicated to providing efficient and cutting-edge tooling solutions.

5-Axis CNC Machine

At the heart of our Tooling Center 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 firstrate quality and craftsmanship on all tooling projects.

Tooling Services

Our innovative Tooling Center serves all global METYX Composites reinforcement customers as 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. A competitive advantage of METYX Composites Tooling Center is that it has the full backing and resources of METYX Composites, who is not only a leading manufacturer of reinforcements but also a kitting company and also a company to deliver consultancy and full package of raw materials.

We are pleased to transfer all of these advantages of METYX Composites to our customers. We resolve all potential production challenges before the tool is delivered to our clients.

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Training

METYX Composites is committed to disseminating composites knowhow in the form of formal and practical composites training both in Turkey and worldwide.

Our signature event, METYX Composites Summit, is the most comprehensive event for high-performance composites in Turkey. The Summit brings together industry leaders from across the globe to present and discuss the most innovative approaches to producing hightech composites.

We also conduct RTM seminars, RTM schools, infusion and infusion trainings.





Others

Consulting Services

METYX Composites offers extensive consulting services catered to the requirements of each customer. We provide tactical solutions for composites industry challenges and deliverables to ensure customers' goals are attained. Services include data analysis, recommendations, custom products, and onsite customer training.

Main production technologies where METYX Composites help our customers, are RTM and infusion.

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

MARKETS RELATED

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Distribution

Our expert team has carefully chosen brands to enhance the quality and efficiency of your production using the latest technology. All our distribution products are high-end and come with excellent service and technical support. They have a proven track record of success in the composites manufacturing community. Our current distribution range consists of world-renowned resins, adhesives, chemicals, core materials, equipment, and consumables.



METYX COMPOSITES AROUND THE WORLD



Our Production Sites







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