

# Sphereax



## **Description**

Sphere.ax is a stitch bonded non crimp fabric (NCFs) consisting of volumised yarns, strands or rovings which are expanded through the embedding of thermoplastic microspheres. The basic material for producing sphere.ax is sphere.strand.

The sphere.ax fabric can consist of one or several layers which are aligned in various axial arrangements. sphere.ax is mainly produced from

E-glass fibers, but also polyester, aramid or carbon fibers.

Mixtures of volumised and non-volumised fibers in the same position are possible as well as combinations of layers with volumised and non-volumised fibers.

Through the non crimped, parallel stretched fibers volumised with embedded microspheres it is possible with sphere.ax to produce composite parts with very high strengths and very low weight.

Sphere.ax is characterised by its extremely high drapeability and can be processed without problems even with complex shapes.

Sphere.ax can also be produced in various axial directions (45/45 // 0 / 90, etc.) and in combination with other flat products or with chopped strands.

## **Difference**

sphere.ax can be used to produce composite fiber materials which, compared with all other sphere.tex

products, yield maximum strengths with regard to the laminate volume and the weight proportion of the fibers. Another essential feature of sphere.ax is the possibility of producing GRP surfaces in a quality, which is not attained by any other composite fiber material.

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With sphere.ax it is possible for the first time to achieve surfaces which come close to class A qualities.

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## **Applications**

sphere.ax is suitable both for the processing in open systems (hand-layup) and in closed systems (vacuum injection, RTM, wet pressing, etc.)

## **Processing**

Sphere.ax is basically processed in the same manner as the other flat sphere.tex products. The special advantage of sphere.ax is its extreme dry mouldability, which allows processing of even most intricate shapes without creases.

## **Delivery specifications**

Sphere AX can be produced in widths up to 3.30 m (130 inches)

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Spheretex gmbh own the currently largest multi-axial machine in the world.

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**Importers and  
Distributors:**



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