



ARCLIN

CoreMatrix™ Technology

For flexible, lightweight ballistic
protection heroes deserve



When everything is on the line

The brave deserve the best

CoreMatrix™ Technology enables greater ballistic protection and comfort

At Arclin, we are proud of our long history of helping to protect military personnel, law enforcement officers and global security professionals with innovative products such as Arclin Kevlar® and Arclin Tensylon®, which provide tested, trusted and proven performance against a range of ballistic threats.

As these threats continue to change and evolve, we are committed to providing new, innovative solutions to meet the needs of those who put their lives on the line to protect others. The latest example of this commitment is the addition of Arclin CoreMatrix™ Technology to our family of protection solutions.

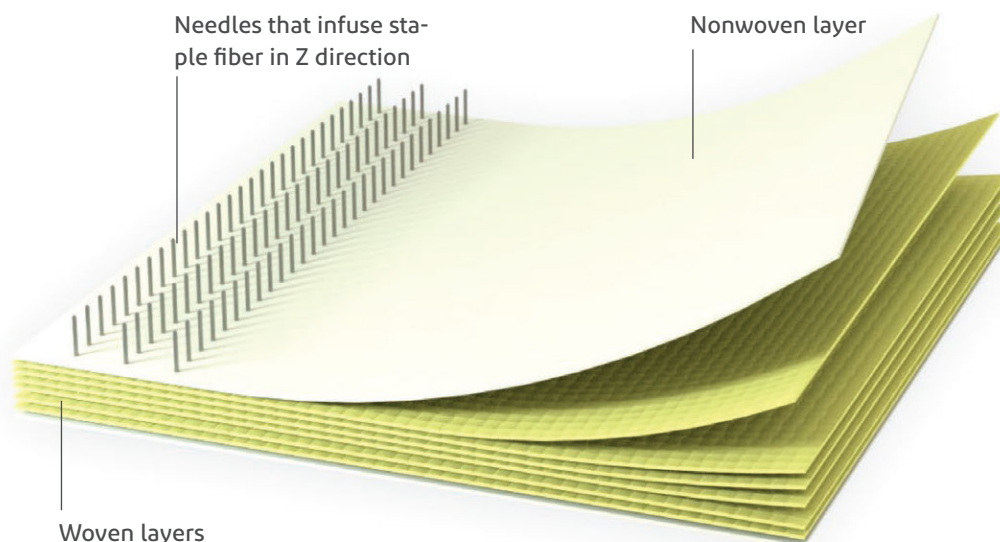
CoreMatrix™ Technology enables the most flexible and lightweight ballistic solutions available. This globally patented technology, available exclusively from Arclin, will be a paradigm shift for ballistic protection.

What is CoreMatrix™ Technology?

CoreMatrix™ Technology uses patented needle punching technology to infuse fiber in the Z direction, combining numerous woven layers with a nonwoven batting to create a hybrid ballistic fabric solution.

Along with the proven performance of Arclin fiber technology, CoreMatrix™ Technology will enable the lightest, most flexible ballistic solutions that meet the new National Institute of Justice (NIJ) standards for enhanced durability.

Compared to traditional woven structures that are stitched together, fabric solutions made with CoreMatrix™ Technology provide 10-15% increased ballistic performance without sacrificing comfort; enhanced flexibility and comfort for wearers; and ease of manufacturing for body armor manufacturers.



Increased lightweight ballistic performance without sacrifice

Arclin fiber technology with CoreMatrix™ Technology provides unmatched strike face performance while delivering superior protection against edge shots, multi hits and fragment threats. This superior ballistic performance allows for lighter weight solutions without sacrificing comfort and flexibility.

The CoreMatrix™ Technology process makes ballistic fabric solutions flexible, soft feeling and more comfortable to wear than heavily stitched wovens or unidirectional fabric structures.

The use of CoreMatrix™ Technology in hybrid package designs mitigates complex stitch architecture, significantly reducing solution build times, which results in lower manufacturing and labor costs.

Fabric benefits



Performance

10-15% increased ballistic performance compared to traditional woven structures



Comfort

Provides lightweight ballistic solutions without compromising flexibility and feel



Ease of manufacturing

Significantly reduces manufacturing time with minimal set-up and stitch architecture





POLICIE

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The future of ballistic protection

Global technical support

Our four technical centers located around the globe are staffed with experts and filled with state-of-the-art technology to provide you with the technical support you need. At these centers, our scientists continuously analyze data and conduct research to challenge the boundaries of ballistic protection.

To meet the unique requirements of various regions, our three global ballistic testing ranges ensure that the performance of all ballistic applications meet the needs and requirements of the regions we serve. From soft armor vest testing to statistical and new product development testing, all solutions ensure the protection of those who depend on it.





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Product safety information is available upon request.

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, ARCLIN MAKES NO WARRANTIES AND ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. Nothing in this publication is to be considered to be a license to operate under or a recommendation to infringe any patent right.

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