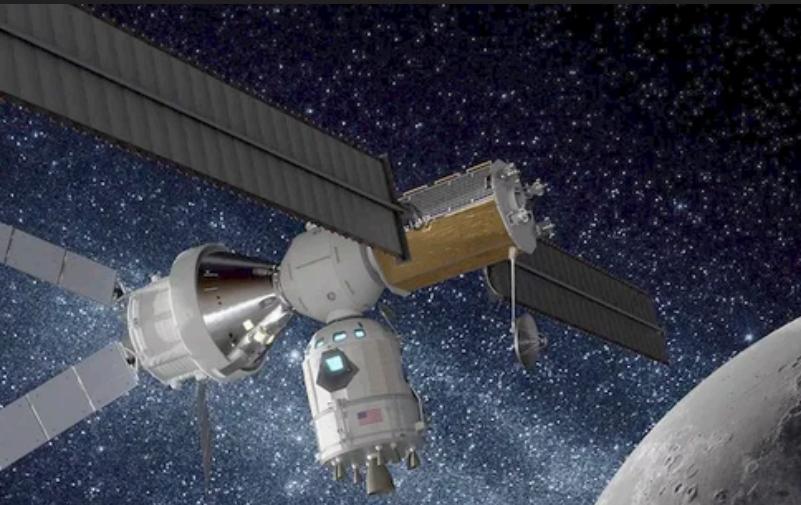


DROP STITCH



Drop Stitch: Lightweight Innovation, Maximum Strength

Drop stitch is an advanced, high-performance 3D engineered textile designed for lightweight, inflatable panels that deliver the strength and rigidity of traditional structural materials—without the weight, bulk, or limitations. Once used primarily in watercraft, this innovative technology is reshaping inflatable design across industries from floating docks and airplane wings to rescue lift bags and inflatable shelters, with countless other advanced applications.



The power of drop stitch performance lies in a precision-built internal core: two fabric layers held apart by tens of thousands of high-tensile fibers. When sealed and pressurized, those fibers lock in place, forming an exceptionally stiff, perfectly flat surface that traditional inflatables simply can't match.

Engineered with two tightly woven base textile layers—utilizing yarn types based on specific application requirements and material availability—the fabric is reinforced by thousands of precision-aligned drop (pile) yarns that lock the layers together. This configuration creates a highly stable, load-bearing structure with exceptional dimensional accuracy. When laminated with a durable polymer coating, the material becomes fully airtight, delivering a lightweight, compact, and ultra-durable solution for advanced inflatable applications where strength, reliability, and portability are critical.



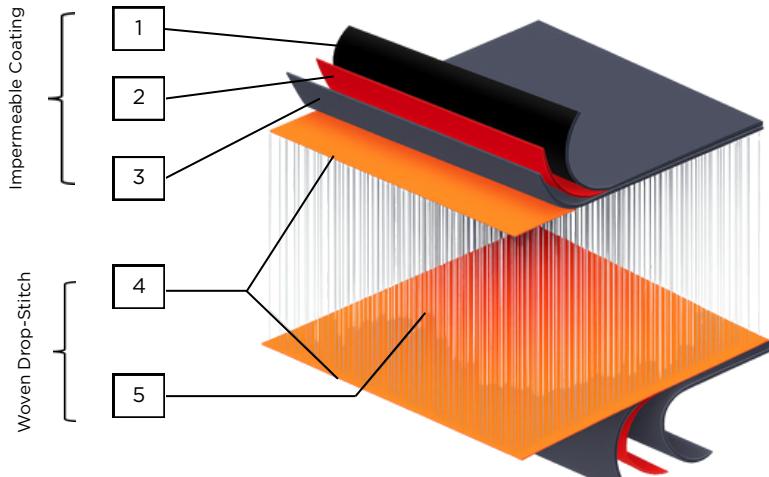
COLLABORATE WITH US

Discover how Drop Stitch can drive your next project—request a sample today.

CONNECT WITH OUR TEAM

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401-721-6259

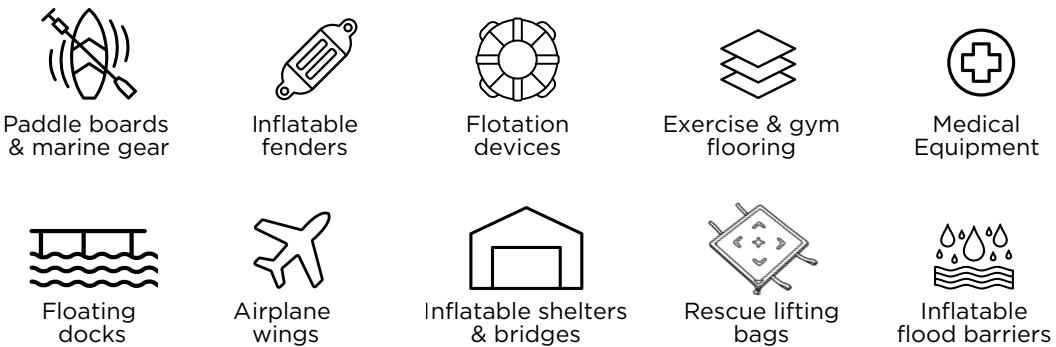
Discover the core of high-performance.



- 1 Outer Coating**
Protective, abrasion-resistant, airtight exterior
- 2 Chafer Fabric***
Available with or without chafer (film only) on top of Drop-Stitch
- 3 Inner Coating**
Seals air pressure for consistent rigidity
- 4 Backing Fabric**
Structural textile that distributes load
- 5 Drop Yarns**
High-tensile fibers that create exceptional stiffness when pressurized

Drop Stitch Applications

Engineered for the most demanding environments, Cooley Drop Stitch is trusted for military use and a wide range of other applications, including:



Why Choose Cooley Drop Stitch?

- ✓ Superior Performance: Easy to heat-weld, offering exceptional durability, air retention, and consistent performance.
- ✓ Military-Grade: Fully Berry Amendment Compliant and manufactured to meet all Department of Defense standards.
- ✓ Proven Quality: Trusted supplier for CRC membranes with expertise to expand drop stitch for diverse applications.
- ✓ Domestic Supply Chain: 100% locally sourced and manufactured, ensuring reliability and no interruption to supply.
- ✓ Efficient & Portable: Lightweight, versatile, and easy to install—saving time and costs.

Cooley Group

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Learn more about premium fabrics and coatings from **Cooley Group**, designed to fit your needs.

