

Coats® Atlantis

Coats Atlantis is made from braided liquid crystal polymer (BRA), a new generation raw material that is commonly used in highly demanding aerospace and military applications. Coats Atlantis offers exceptional flex fatigue resistance combined with superior load bearing characteristics. In fact, Coats Atlantis was used to sew the airbag assembly that cushioned the landing of the Mars Pathfinder on the surface of the red planet - a real mission-critical application.

COATS
atlantis



BRAIDED LIQUID
CRYSTAL POLYMER

WHY CHOOSE ATLANTIS?

- Exceptional flex fatigue and fold characteristics, withstanding repetitive stresses and strains
- High strength and modulus yield excellent load bearing and recovery properties
- Excellent creep resistance which provides dimensional stability without developing any slack
- Minimal moisture absorption, allowing Coats Atlantis to retain all its superior physical properties even under highly humid conditions
- High resistance to chemical degradation and preserves properties under acidic or alkaline conditions which ensures performance under all chemical environments
- Outstanding cut resistance is ideal for protection from sharp edges
- Superior vibration damping characteristics, excellent for cushioning repetitive impact loads
- High dielectric strength, ensuring excellent insulation properties
- Low coefficient of thermal expansion, along with excellent property retention in high and low temperatures, resulting in dimensional stability under heat or cold.



Coats® Atlantis



MAIN USES

- Aerospace
- Cut proof security bags and luggage
- Electronic support structures
- Ocean exploration and development
- Recreation and leisure industry
- Composites
- Footwear
- Hot air balloons
- Kites
- Parachutes
- Industrial applications
- Protective apparel and high-pressure inflatables
- Ropes and cables
- Kites
- Safety materials

PRODUCT RANGE

Braid Diameter mm	Dtex/ply	Strength N	Elongation % Min - Max
1.60	1670 X 6	1300	1.5 - 4.5
2.85	1670 X 19	4360	1.5 - 5.0

Coats Atlantis can be produced as a twisted sewing thread upon request.



BRAIDED LIQUID
CRYSTAL POLYMER



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EXPERT REAL WORLD SUPPORT

The final cost of any product also includes hidden costs, fuelled by the methods and tools applied to it. Our experts know exactly how to reduce those costs, save time and increase productivity.



One to One Visits

There's no need to come to us, our experts will travel to your site. In person, online or via the phone, our trained consultants deal with the kind of issues any busy factory may face, providing a solution for today and a blueprint for future efficiency.



Training and Presentations

From product selection to solutions for common production issues, we take the learning gathered through years of hands on experience and present it in the form of high impact seminars, workshops and presentations.



Innovation Hub

Collaborate directly with expert R&D technologists at our Innovation Hub to create pioneering and tailored solutions for products ranging from Performance Materials to Apparel and Footwear. Equipped with state-of-the-art technology, we quickly turn ideas into prototype designs ready for manufacturing.

To drive your hidden costs down, talk to Coats. From thread audits in pre-production to the latest technical bulletins, we'll provide support that achieves measurable results.

For more information, talk to your Coats representative today or visit www.coats.com/atlantis



Since conditions and applications vary considerably in the use of a product, the customer and/or user should assure themselves that the product meets end customer requirements and is suitable for the intended end use. Coats accepts no liability for unsuitable or improper use or application of products. Information provided is based on current averages and should be taken only as indicative. Coats accepts no liability for the preciseness and correctness of the information provided. Product information sheets are updated for time to time, please be sure you are referring to the most recent publication. Coats supports customers with advice on individual applications on request; if you have any questions or concerns, please contact us. © Copyright reserved 2022

