



ARMALITH®
MY SECOND SKIN





The world's strongest and coolest denim

«Armalith® is the story of my passions. Firstly textiles, which opened the doors to the great ready-to-wear and haute couture houses. Then motorcycling, an incredible vehicle for finding freedom and meeting people.

In 2003, I combined these two passions by creating Armalith® with one idea in mind: to offer the best possible protection to bikers without compromising on the comfort and authenticity of a real pair of jeans.

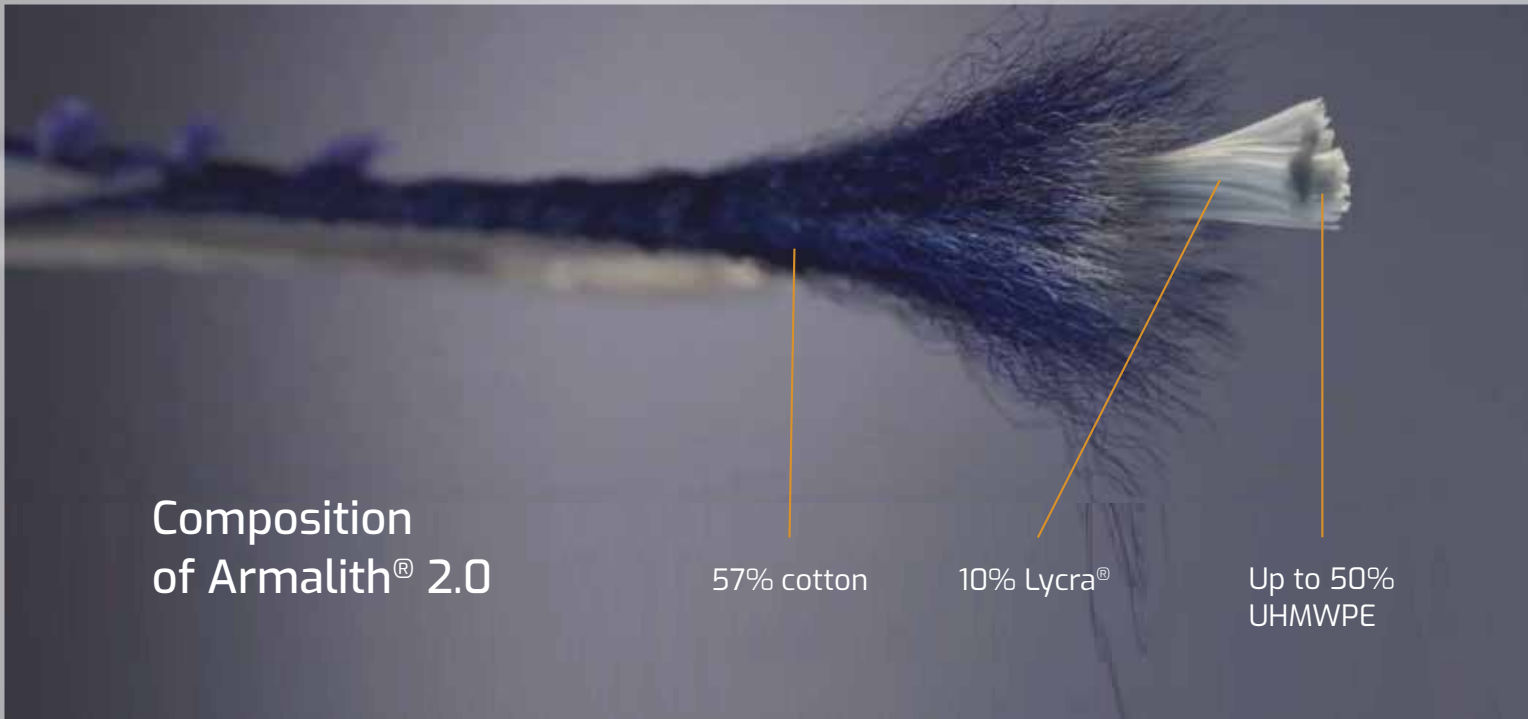
Today, Armalith 2.0® is the denim of choice for the most prestigious brands for their abrasion protection equipment.

Our journey continues. Armalith 2.0® continues to develop and perpetuate its title as the strongest denim in the world, but also the most durable and ethical.»

Pierre-Henry SERVAJEAN



THE STRONGEST & COOLEST DENIM



Composition of Armalith® 2.0

57% cotton

10% Lycra®

Up to 50%
UHMWPE

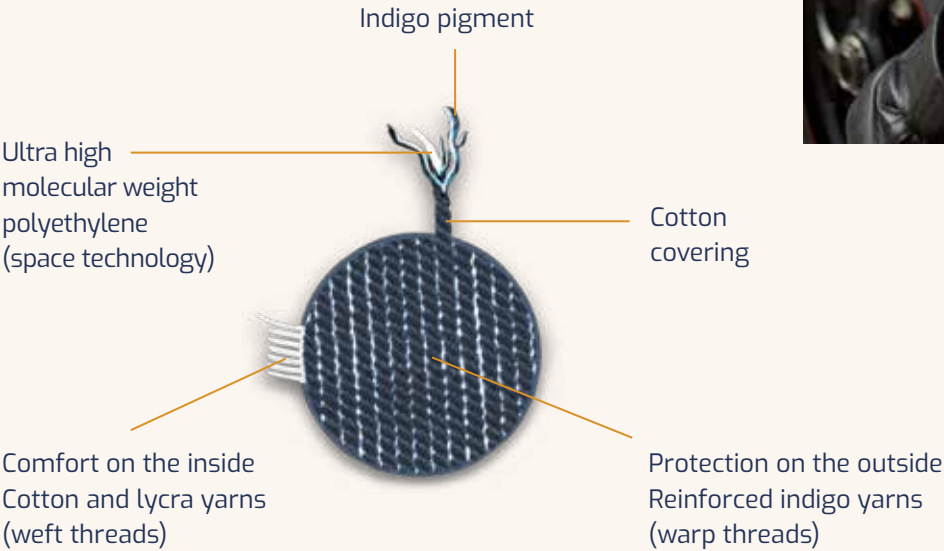


High technology for high security

The heart of the armour is made of UHMWPE (high molecular weight polyethylene). This high resistance fiber comes from aerospace research; it is used for space module re-entry ropes, military armour, mooring cables for offshore platforms... This core is then covered with a cotton fiber using an exclusive and patented process, and combined with LYCRA® dualFX® technology for a powerful and durable stretch.

Armalith 2.0 in fact

- The mechanical qualities of leather with the comfort of denim
- Extreme resistance to cuts, traction, tears and abrasion
- High UV resistance that preserves its mechanical properties
- One layer for resistance that is superior to any lined products



What about the standards

It is difficult to find your way through the maze of certifications and standards! Here is a table of equivalences, which demonstrates the superiority of Armalith 2.0® over the CE standard in terms of abrasion resistance.

Performance/Use	Classic denim	Basic biking	Leisure biking	Active biking	GP biking
ARMALITH 2.0® GRADES			A	AA	AAA
Sliding distance in meters			10 m	14 to 32 m	56 m
DARMSTADT TEST EQUIVALENT					
Fall speed in km/h			45 km/h	70 km/h	120 km/h
CAMBRIDGE TEST EQUIVALENT					
Slide duration in seconds	0.3"	1"	2"	4"	7"
Slide distance in meters		8 m	16 m	32 m	56 m
CE 17092 REQUIREMENT		A	AA	AAA	
NO CERTIFICATION	0.5 - 2 m				

PWI 162392 DARMSTADT: developed by the university of the same name and BMW, this standard is a reference outside the circuits. Very precise on short abrasion times (less than 2 to 3 seconds).

13959-2 CAMBRIDGE: historical reference standard in competition. Very precise and effective for abrasion times of more than 4 seconds.

MOTORCYCLE PPE EN-17092 (CE): European certification for Personal Protective Equipment. It includes too many parameters (such as removable protections) to allow a rational comparison.

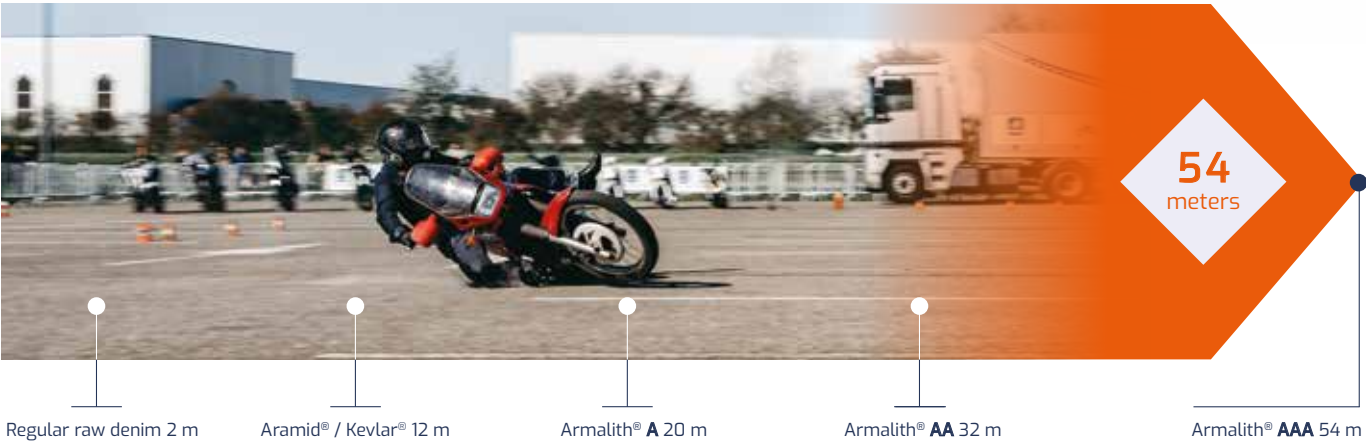
COMPARATIVE RESISTANCES: Compared to Kevlar®, High Molecular Density Polyethylene is 25% more abrasion resistant, 40% lighter, 2.5 times tougher, and retains its properties 10 times longer under UV exposure.



High resistance for high protection

High-tech integrated into authentic denim for unique comfort and protection, Armalith 2.0® meets the most demanding standards such as Darmstadt and Cambridge, which are more scientific than the CE certification.

Armalith 2.0® is available in 3 grades - A, AA and AAA - to cover all needs from urban use to maximum protection against abrasion. In its EXO (KNIT) form, Armalith 2.0® can be used as a lining to increase resistance in specific areas without using other uncomfortable solutions.





High comfort for high style

Safety in a single layer of fabric, comfort, softness, stretchability, and style! Armalith 2.0® is a real denim. Soft, supple, comfortable, breathable and hydrophilic, it allows all the usual textures, dyes, prints and finishing in low temperatures.

Adorned with a beautiful true indigo colour, Armalith 2.0® will acquire a patina and improve over time to create jeans that tell a story.

The only limit to Armalith 2.0® is the one that designers set for themselves!



THE STRONGEST & COOLEST DENIM

High responsibility for high sustainability



Armalith 2.0® is an ethical and responsible denim.

LOW CARBON FOOTPRINT

- GRS cotton sourced from Greece.
- Designed in France, manufactured and produced on a single site - spinning, dyeing, indigo, weaving, finishing - at Tejidos Royo in Spain.
- UHMWPE fibre requires half the energy to produce than aramids.
- The UHMWPE fibre used under the ARMALITH 2.0® patent is continuous (no energy-intensive cracking) and untextured (no energy-intensive texturing).
- All Armalith 2.0® denim manufacturing processes are carried out at low temperatures: **a world first for stretch fabrics.**



ENVIRONMENTALLY FRIENDLY

No heavy metals used in the pigments, the indigo is made using a slow, cold, waterless process: a world first!

DURABLE

Resistant to more than a thousand washes for greater longevity and without loss of elasticity.

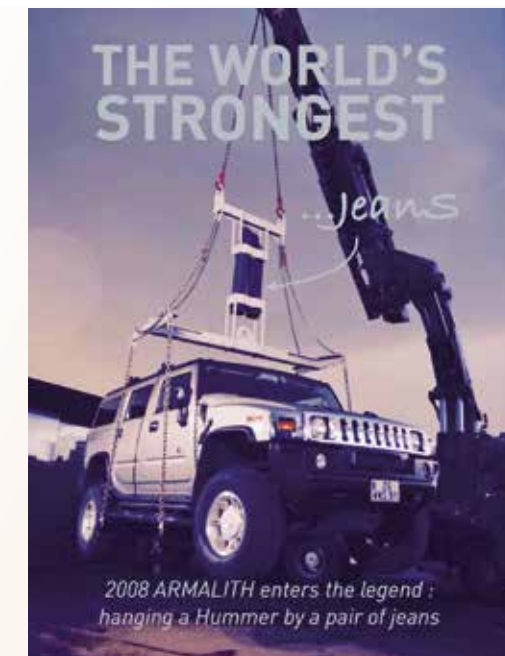




High promotion for high visibility

Labels, trade press, social networks and public relations...
Armalith 2.0® is currently working to raise its profile and
inform all users who are at risk of slipping on asphalt.

The presence of Armalith® hang tag on your garment
is proof of safety and quality for your skin!

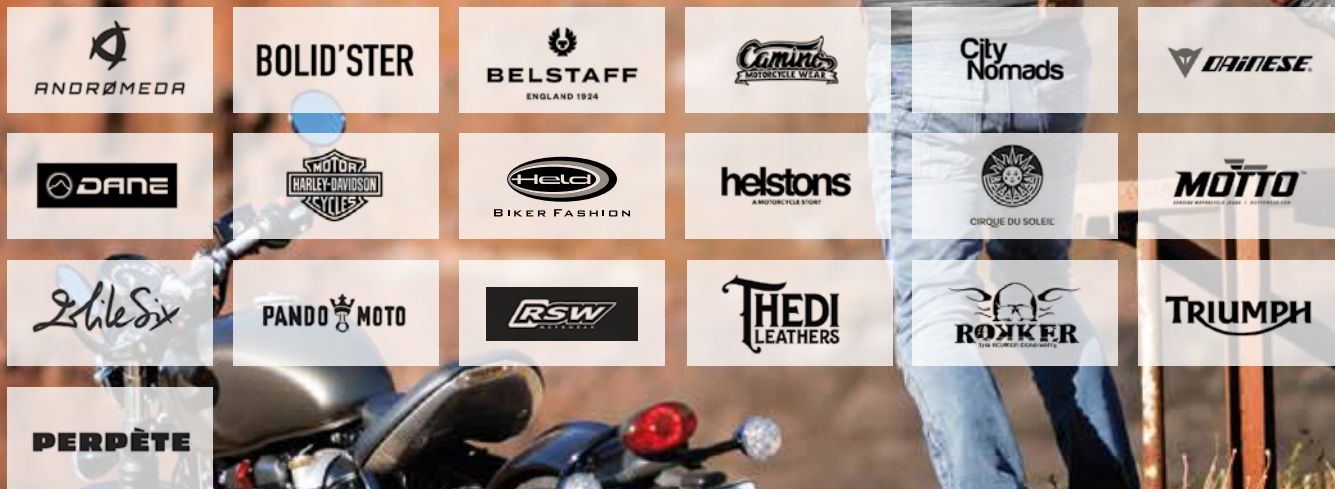


THE STRONGEST & COOLEST DENIM

Armalith 2.0® the choice of visionaries

From small, quality labels to international giants, visionary brands trust Armalith 2.0® to make their abrasion protection gear, whether they are motorcyclists, moped riders, cyclists, skateboarders or even stuntmen!

Join the Armalith 2.0® community!



Big challenge!

Try to tear me apart. Grab both handles and pull as hard as you can. It's an amazing effect!



More about
Armalith 2.0®



www.armalith.com

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