

DYNEEMA® material

Dyneema® Denim in majority is a mix of Polyethylene fiber with Cotton. Dyneema® yarn is based on a Ultra High Molecular Weight Polyethylene (UHMWPE) which is manufactured using a special spinning process resulting in a fiber that has an extreme high crystallinity with following properties:



Extreme high tensile strength

Depending on the Dyneema® content in the Denim it will be extremely difficult to tear or break the fabric. It is claimed to be 15 times as strong as steel.

High cut resistance

Denim that contains more than 5 - 10% Dyneema® will have noticeably higher cut resistance compared to regular fabrics.



Abrasion resistance

Using half the amount of Dyneema® improves the abrasion resistance of a single-layer motorcycle denim with aramid by 70%. The like-for-like improvement is 300%.

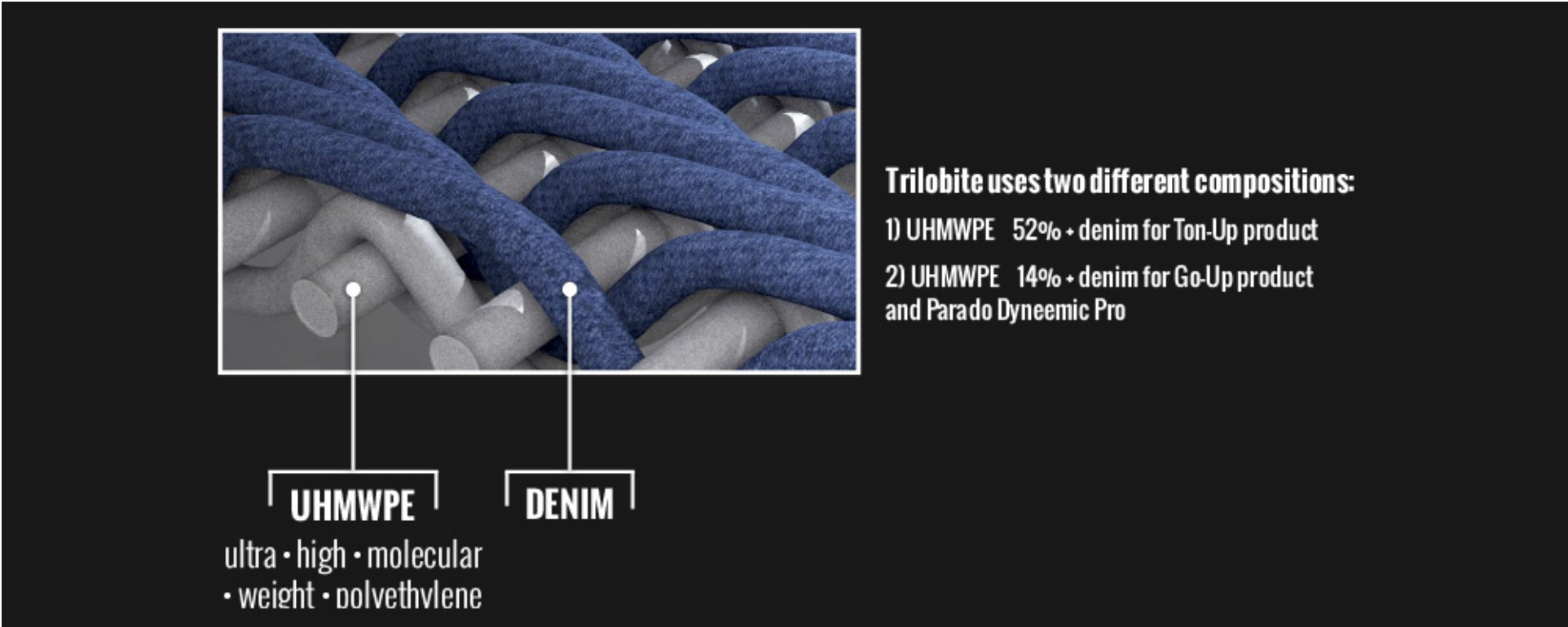
Chemically inert

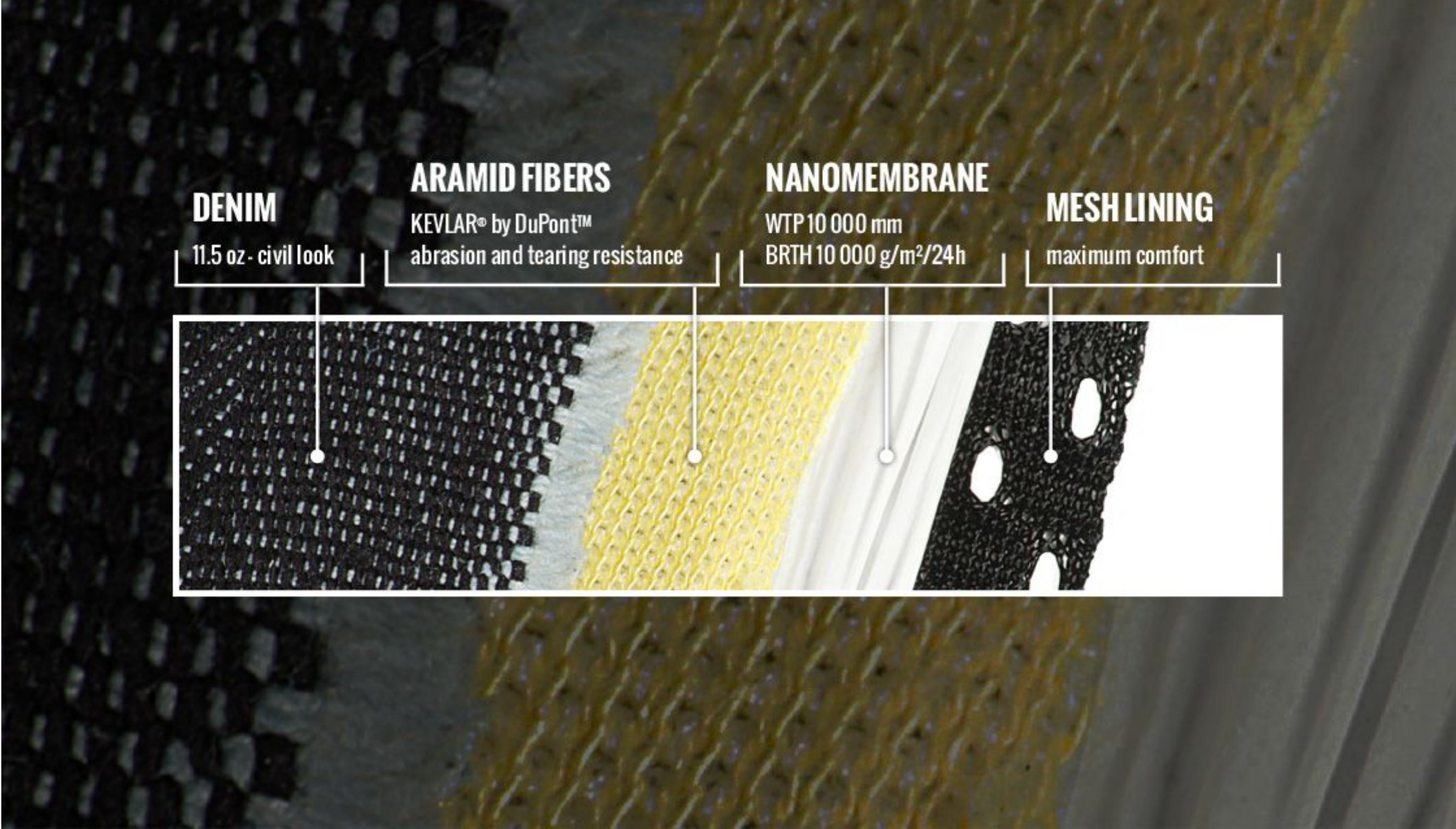
Even though Dyneema® itself is chemically inert and therefore resists almost all types of chemicals, it is not recommended to bleach nor dry-clean denim with Dyneema® to prevent quality issues related to the cotton fiber in the denim.

Heat sensitive

Dyneema® has a melting temperature of 140 - 144°C and therefore any exposure to temperatures higher than 130°C, even for short periods (seconds) should be avoided. Hence the recommendation to iron at max 110°C / 230°F and tumble dry at low temperatures.

UHMWPE is odorless, tasteless, and non-toxic, therefore it is widely used in all kinds of industries - bulletproof vests, cut resistant gloves, mooring oil rigs in harbor, fishing nets, biomedical use in orthopedic and cardiovascular implants, sports equipment.





TRILOBITEX® material

A world's unique performance material by Trilobite® called TRILOBITEX® represents an innovative breakthrough technology in the world of motorcycle jeans protection.

TRILOBITEX® material is especially designed for motorcycle garment. In its 4-layer sandwich construction it combines basic features which are important for every rider – Safety, Abrasion resistance, Breathability, Comfort, Waterproofness.

The four layers are directly laminated which ensures effective product dimensions and gives the jeans civil and ergonomic look.

Trilobite Premium Aramid Fashion® as the first in the world is introducing abrasion resistant, protective waterproof jeans.

There have been many jeans equipped with protective lining but we decided to go ahead and break further limits. Those who wear denim when riding a bike also want to travel dry and safe. All of this you can have with our new denim range made of technologically advanced TRILOBITEX® material developed exclusively for motorcycle riders.

TRILOBITEX®

PATENTED TECHNICAL WATERPROOF & ABRASION RESISTANT & PROTECTIVE DENIM

No additional layers, no excuse - all is already included in the TRILOBITEX® material.

TRILOBITEX® is a patented material of Bikers Crown Ltd. TRILOBITEX® and TRILOBITE® are trademarks of BIKERS CROWN Ltd. Kevlar® and DuPont™ are trademarks or registered trademarks of E.I. du Pont de Nemours and Company.



designed & developed
in the Czech Republic





Image description

Membranes will assure unrivalled drainage of moisture away from your skin to the outside environment and still keep a sufficient value of the water column and 100% windproof features.

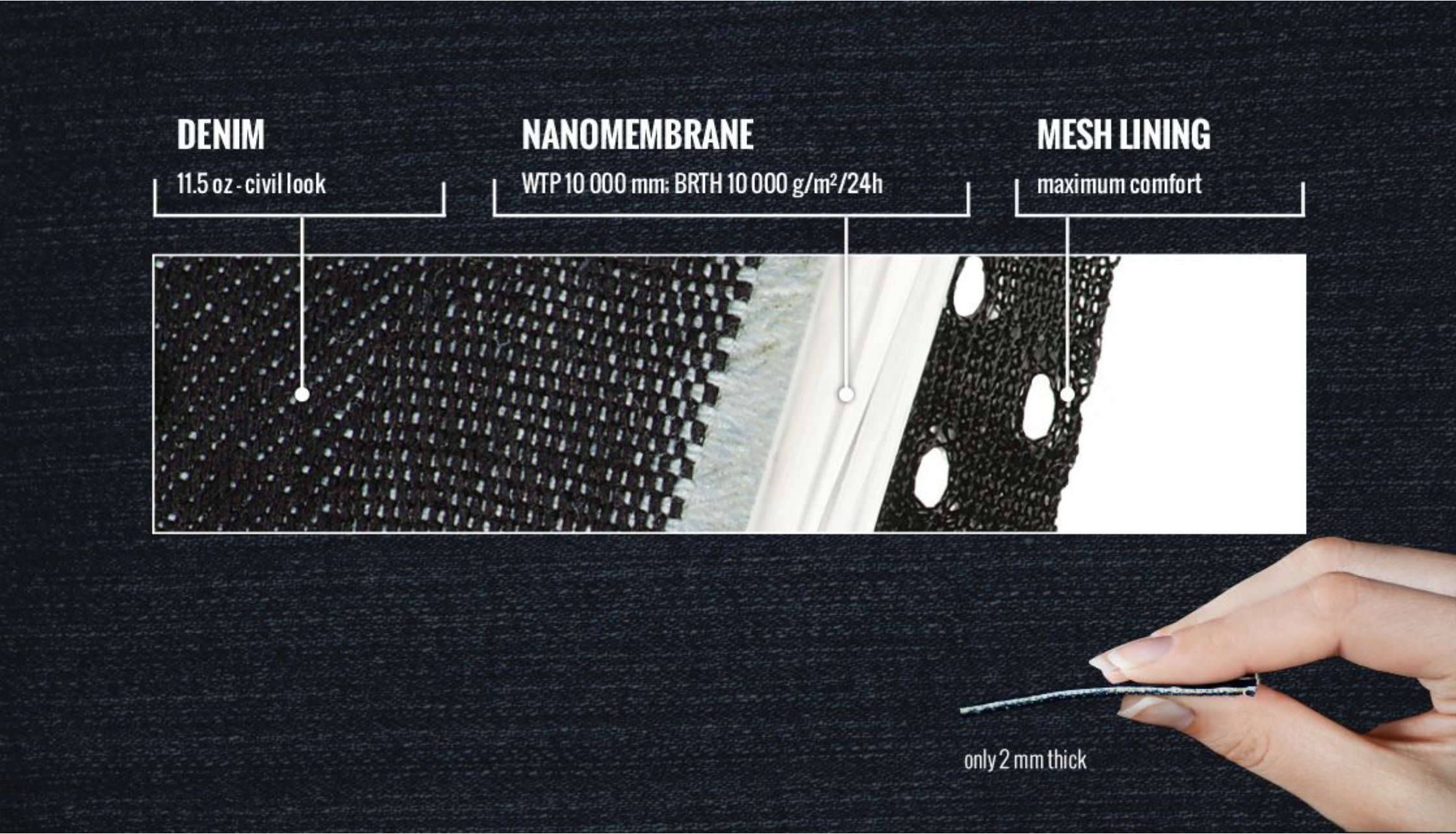
Thanks to unique nanofiber structure with the fiber diameter up to 150 nm, the nanomembrane has by 20 000 000 pores within 1 cm2 more than usual micropore membranes. Thanks to it the nanomembrane is able to reach unique properties which no other membranes in the world can compete. Nanomembrane is very similar to human skin which gives the membrane extremely high values in its breathable properties. It means the ability to take body moisture away from the skin to the outside environment. Moreover nanomembrane is 100% windproof and its hydrostatic resistance can exceed 10 000 mm+.

Material	Abrasion Resistance (Seconds)	Notes
REGULAR DENIM, JEANS (DEPENDS ON WEIGHT OF OUNCE)	0,42 s	
CORDURA DENIM	1,22 s	
TRILLOBITE GO-UP	1,5 s	DYNEEMA® DENIM 14%
TRILLOBITE PARADO, TRILLOBITE ACID SCRAMBLER, TRILLOBITE MICAS URBAN, TRILLOBITE SMART, TRILLOBITE SKBRIDING, TRILLOBITE ZIP'S Y, TRILLOBITE AIRTECH, TRILLOBITE TAFF	2,6 s	DENIM + KEVLAR
TRILLOBITE PARADO DYNEEMIC PRO	3,7 s	DYNEEMA® DENIM 14% + KEVLAR
LEATHER	4,12 s	
TRILLOBITE TON-UP	4,8 s	DYNEEMA® DENIM 52%
TRILLOBITE PRO BUTX-FACTOR, TRILLOBITE RAW AUTHENTIC, TRILLOBITE RIDE'N ROLL	5,2 s	CORDURA® DENIM + KEVLAR
TRILLOBITE AGNOX, TRILLOBITE SYMPHIS ROCKER	6,7 s	TRILLOBITE®

0 1 2 3 4 5 6 7 SECONDS OF TOTAL ABRASION

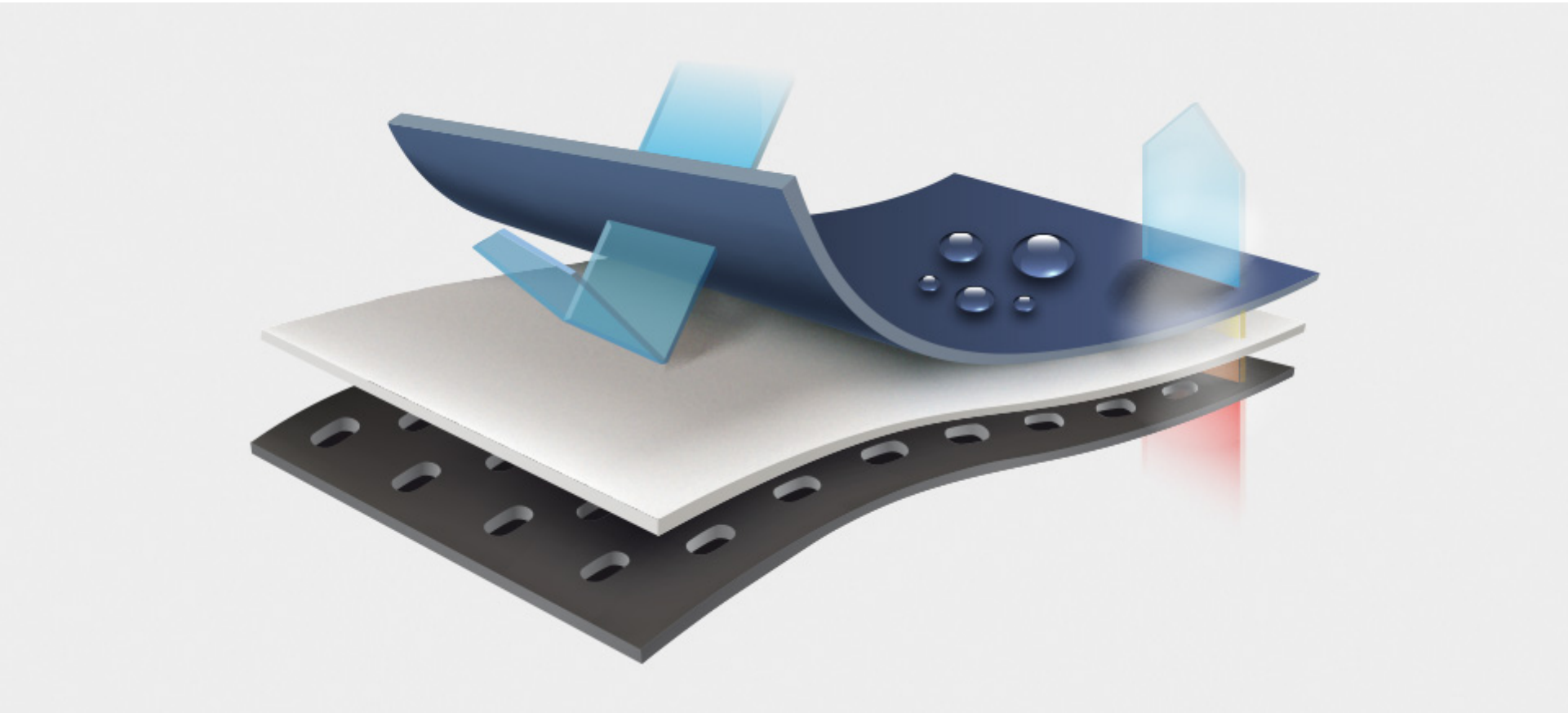
MATERIALS

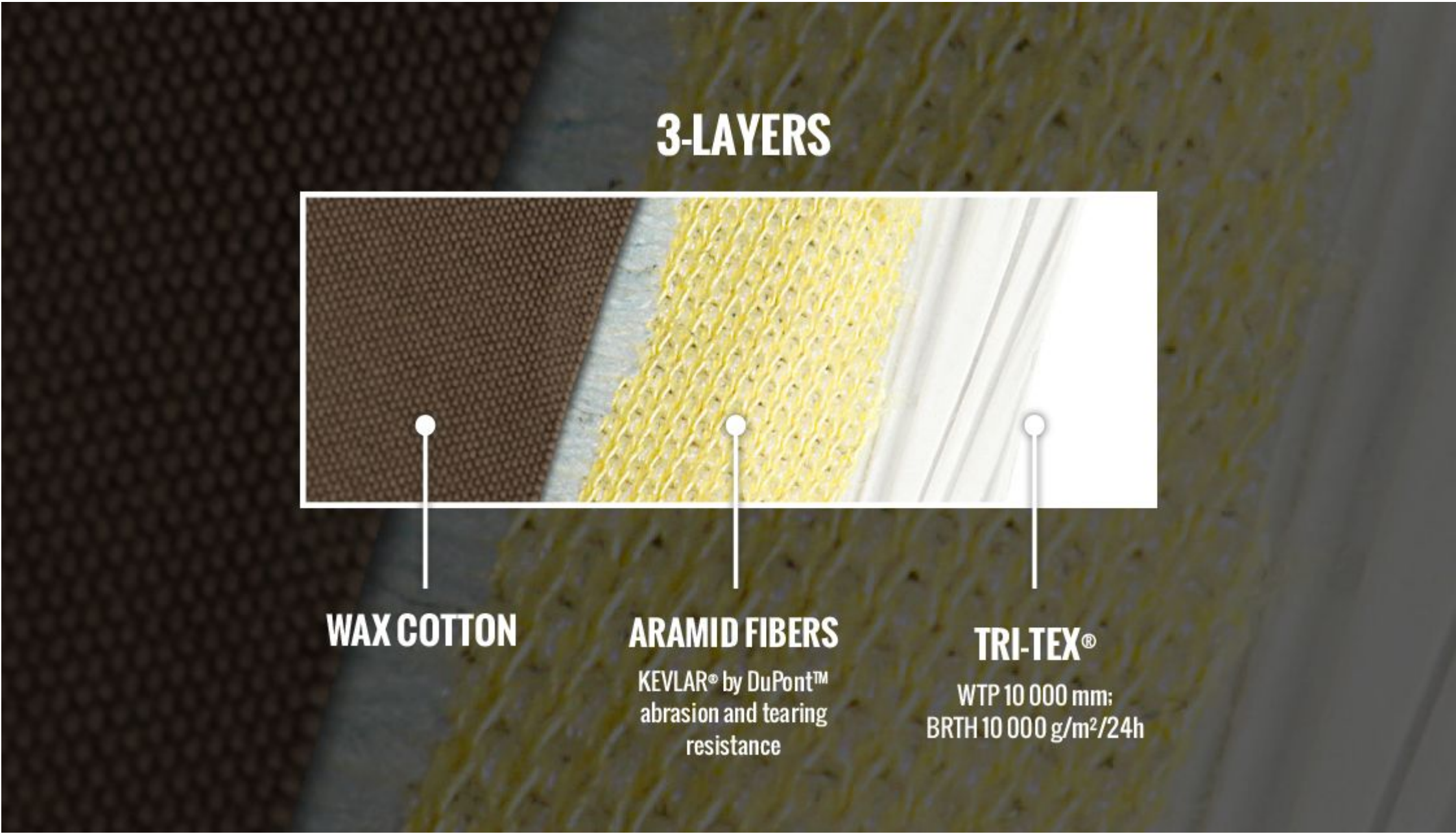
- DENIM
- ARAMID FIBERS LINING
- TRILLOBITE®
- B-DRY
- LEATHER
- (WAX) COTTON
- CORDURA® DENIM
- DYNEEMA® DENIM



B-DRY material

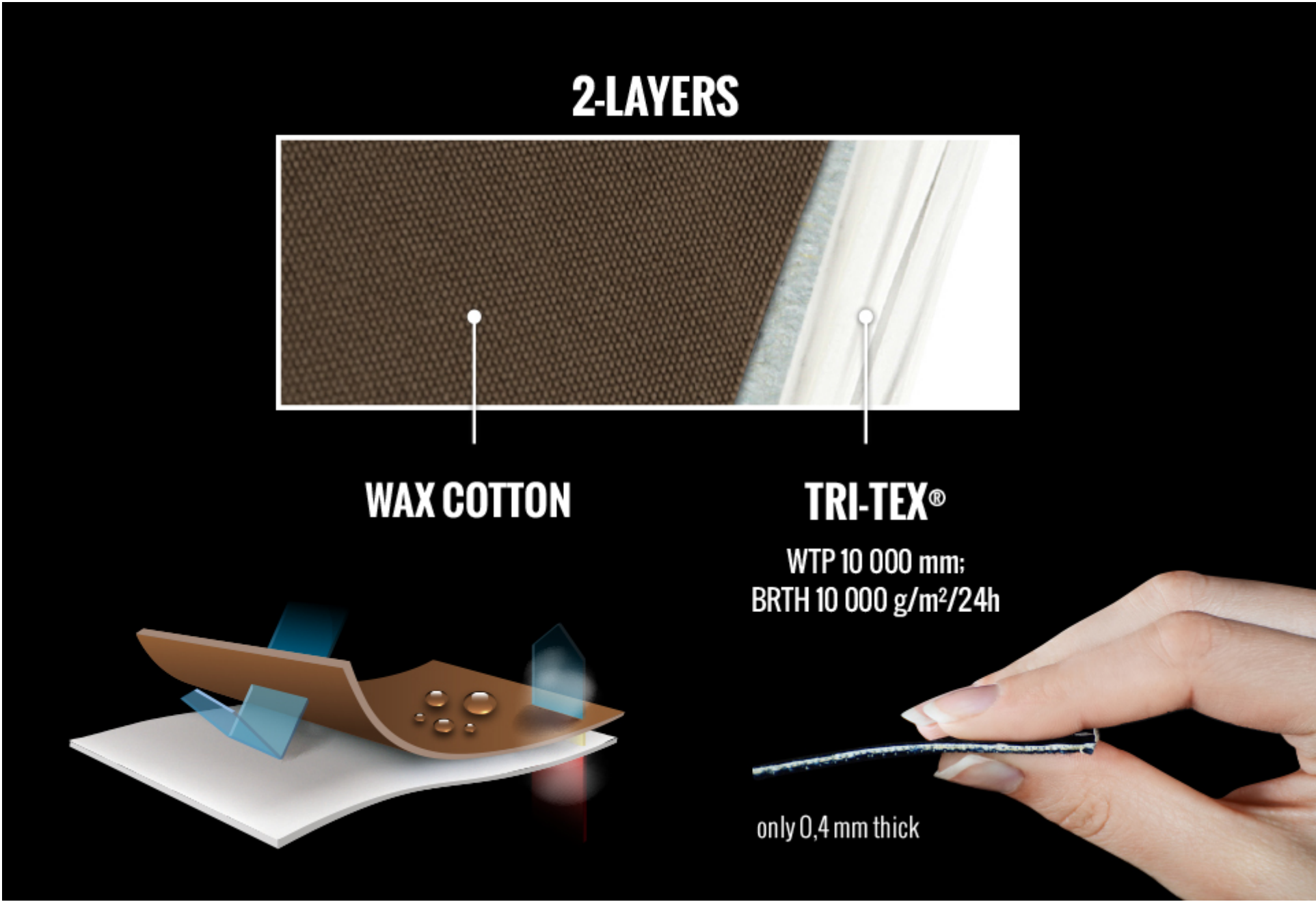
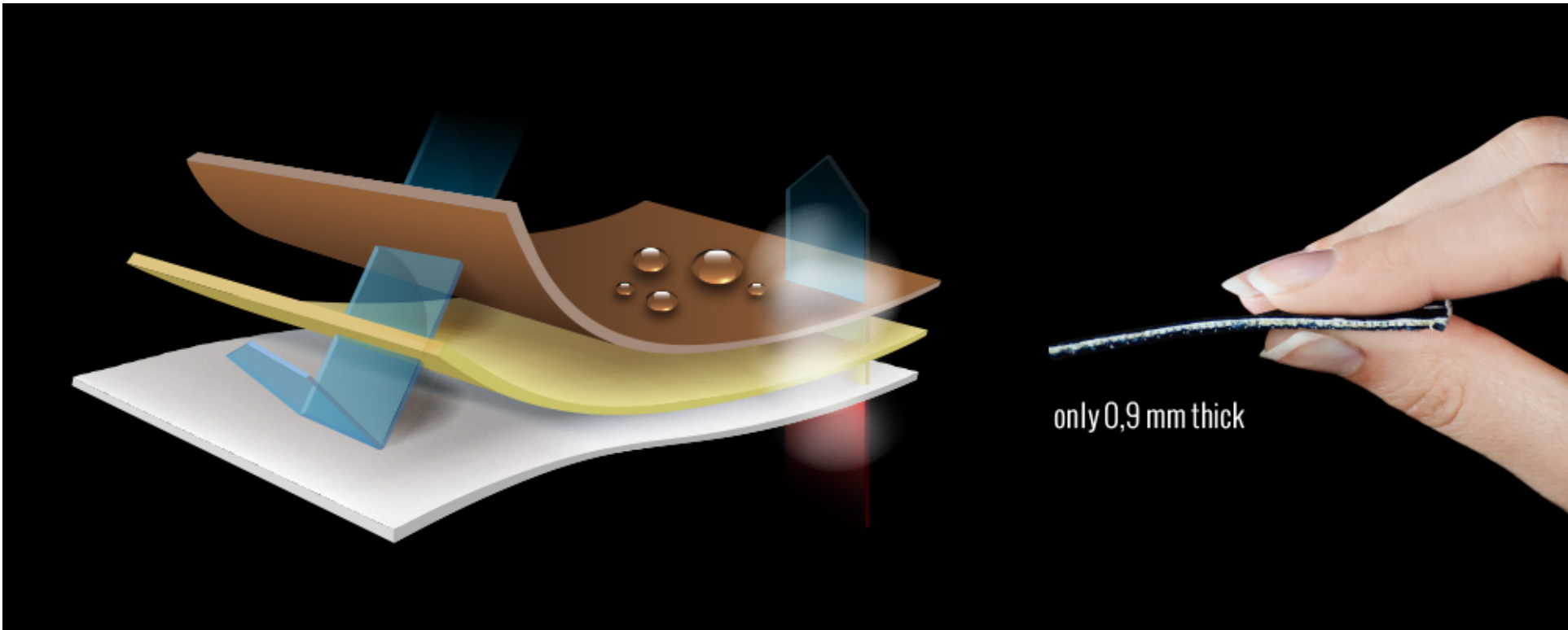
The main advantage of B-DRY is its waterproof features. Three directly laminated layers ensure that you always ride dry with maximum comfort, no matter if you travel in the rain. Water will not get to your body as the laminated nanomembrane works as a barrier that will not let water get to your body as it stops in above layers which dry again quickly.

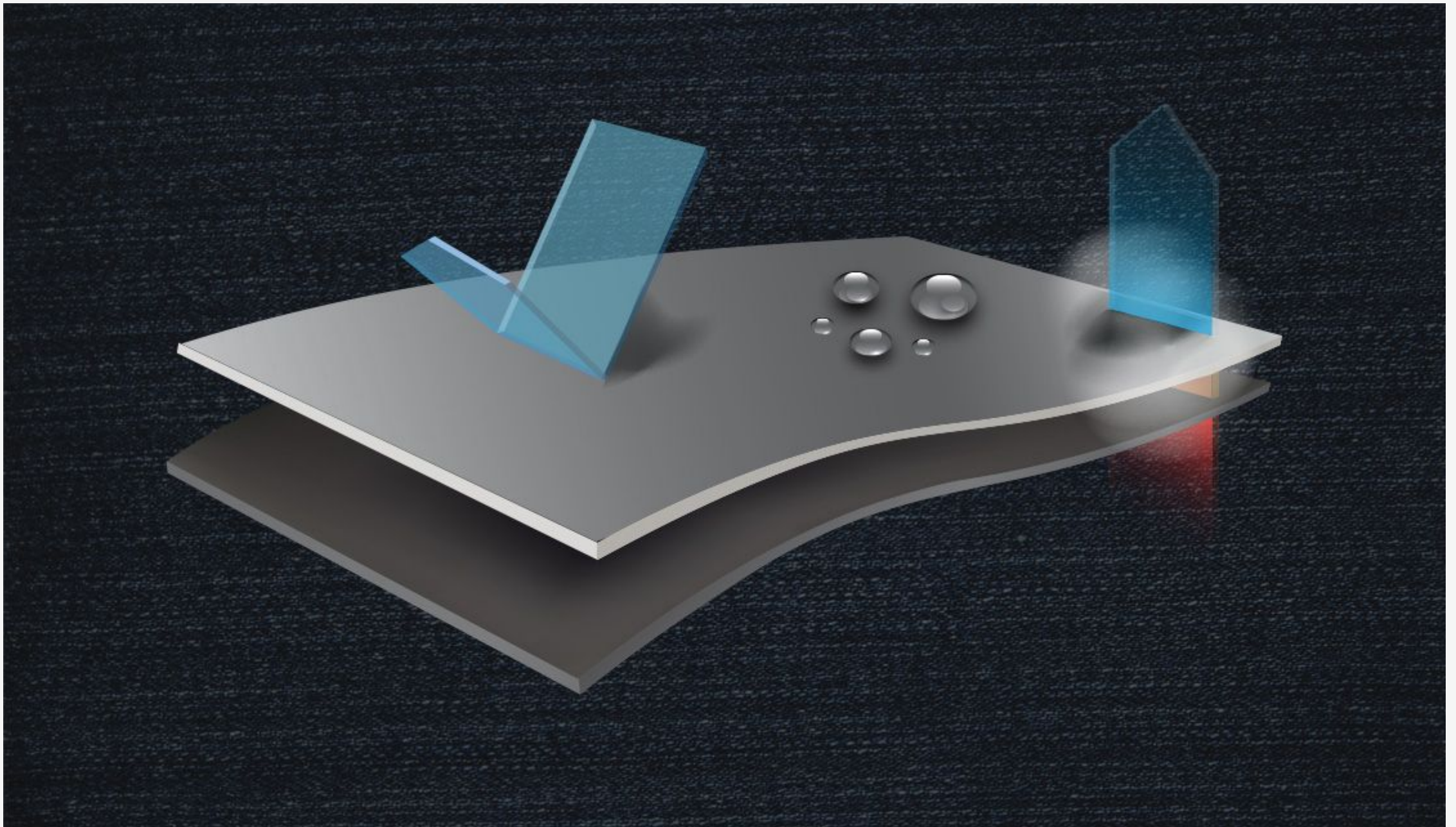




2 and 3-LAYER WAX COTTON® materials

The concept of Wax Cotton was originally developed in the early 15th century by sailors in England and Scotland. Over the centuries it became very popular for the great performance. Waxed Cotton requires only minimal care to maintain its appearance and can go years without having to be washed. The sprayed wax on top cotton layer formula is non-toxic and non-hazardous. It performs great in both hot and cold temperatures. The refined wax finish provides an additional layer of protection from rain, moisture and time. Waxed canvas has a long lifespan behaving much like leather. Trilobite® Premium Aramid Fashion uses the best Waxed Cotton on the market to increase the product lifespan and performance.





TRI-TEX® membrane

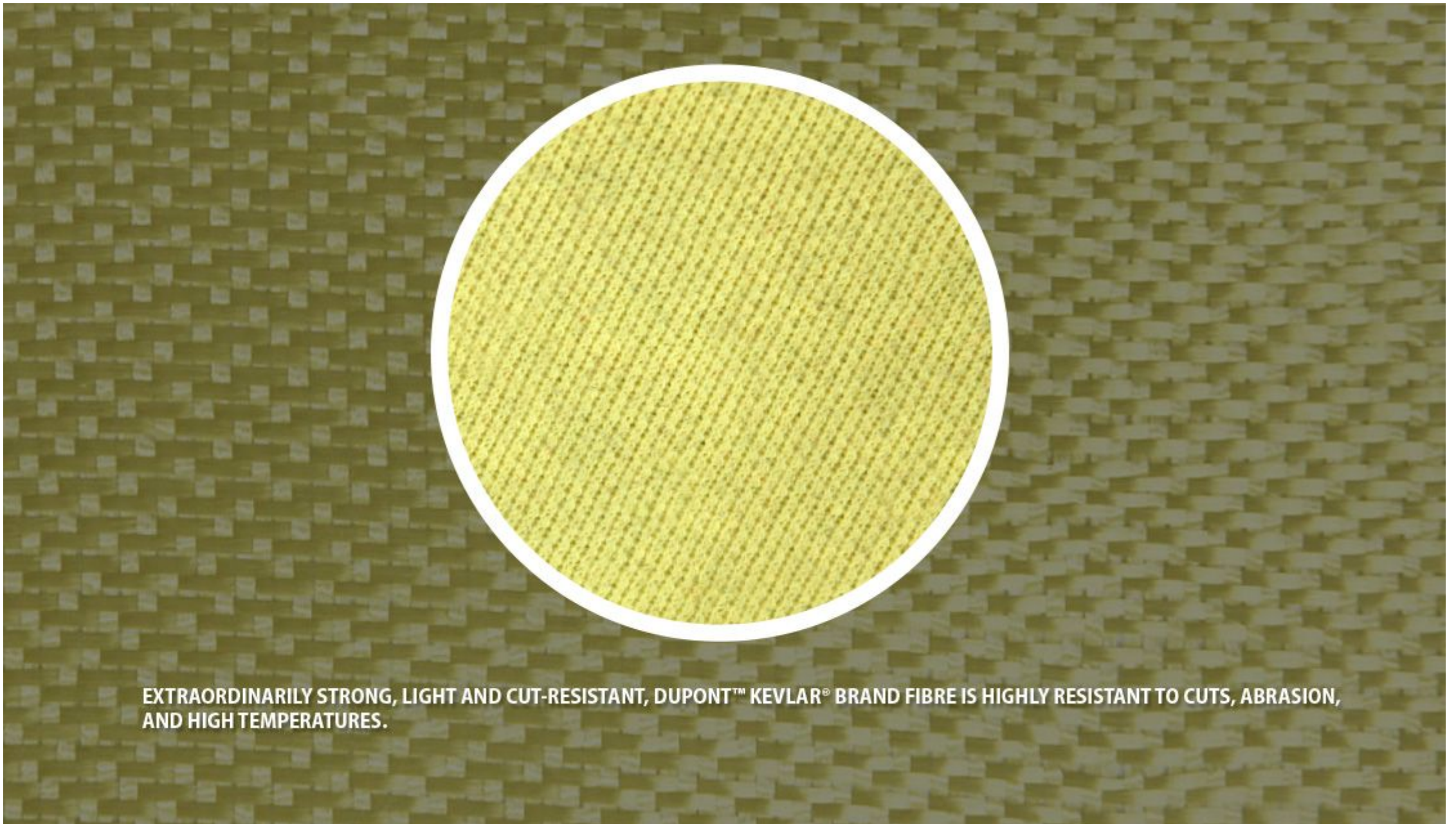
TRI-TEX® is a microporous polyurethane coated membrane with pores of different sizes. TRI-TEX® membrane is waterproof, breathable and windproof. The waterproofness of the membrane is measured on the basis of the water column under the pressure of which the material starts to allow water through it. TRI-TEX® is able to hold up to 10 000 mm water column. The breathability of the membrane means to what extent the membrane is able to let the body moisture vapor through. Thus this ability reduces overheating and wet retention under the membrane layer. Measured in g/cm²/24h TRI-TEX® membrane reaches the value of 10 000 g.

WATERPROOF

TRI-TEX® membrane is waterproof. It protects rider's body from the rain and water drops. Thanks to this membrane you will stay dry and feel comfortable. 10 000 mm water column.

BREATHABLE

TRI-TEX® is a breathable membrane. It allows the body moisture to evaporate and letting through to the outside of the garment. Thus the rider stays dry and feels still comfortable. 10 000 g/cm²/24h.



PROTECTIVE lining

DuPont™ KEVLAR® is an organic fibre in the aromatic polyamide (aramid) family. The chemical structure of para-aramids distinguishes them from other commercial man-made and natural fibers and gives KEVLAR® its unique properties. It has high strength, high modulus (stiffness), toughness and thermal stability. In addition, it is resistant to many of the chemicals and solvents encountered in today’s industrial environment. This combination of properties makes it an exceptional fibre for use in tyre reinforcement, ballistics applications, ropes and cables, and in protective apparel where high strength, and thermal, puncture, and cut resistance are required.

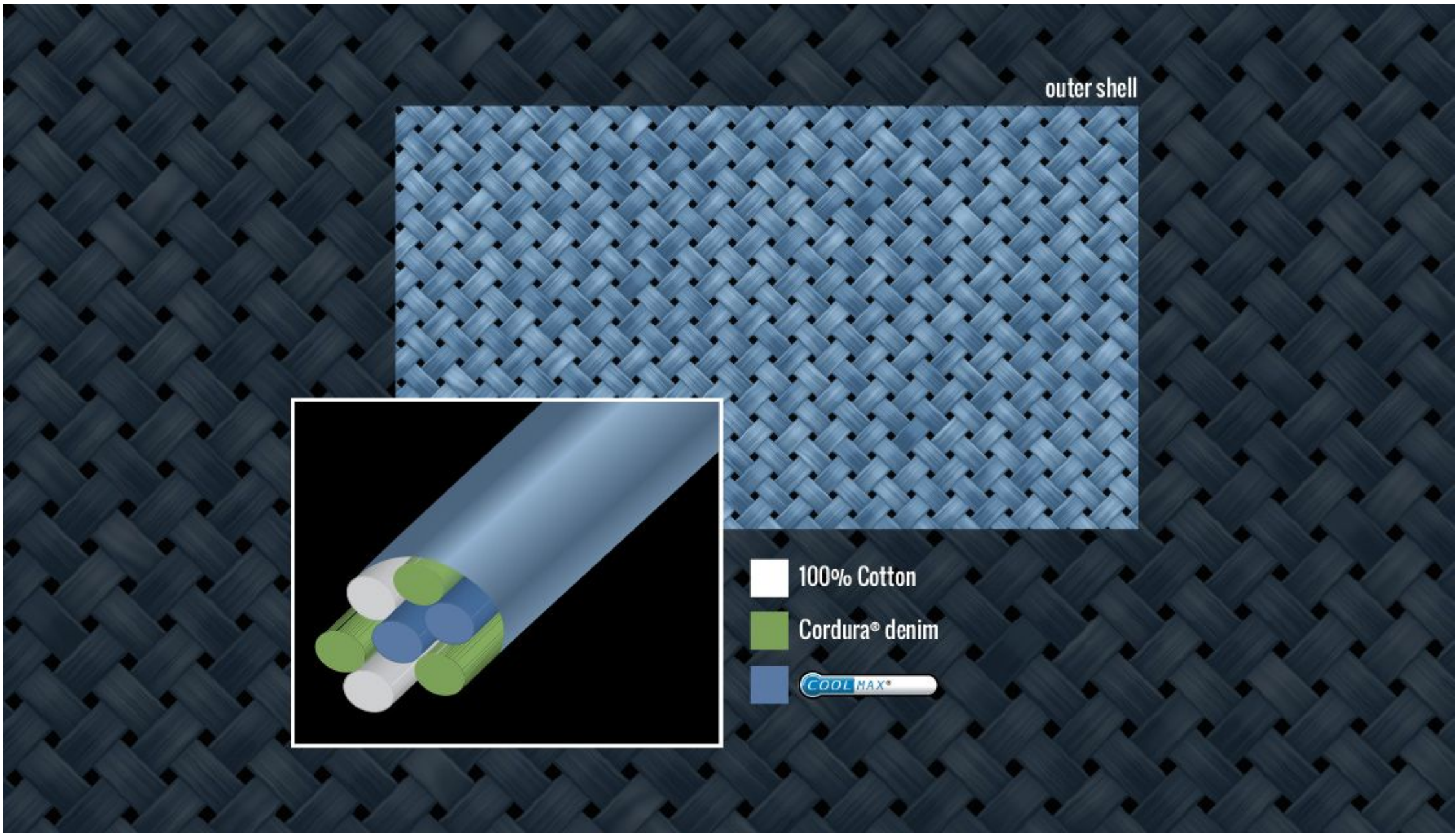
Kevlar® by Dupont™

- original aramid fiber by the progressive DuPont™ technology which is distinguished by strength and abrasion resistance
- tear resistance
- a high melting degree (450°C) ensures safety in case of high frictional temperature

BETTER, STRONGER AND SAFER WITH KEVLAR® FIBER

Versatile and strong, Kevlar® fiber is more than just a series of threads. DuPont™ Kevlar® fibers are used in a variety of clothing, accessories, and equipment to help make them safer and more durable. With five times the strength of steel based on an equal weight basis, it's the go-to fiber for protective apparel and accessories.

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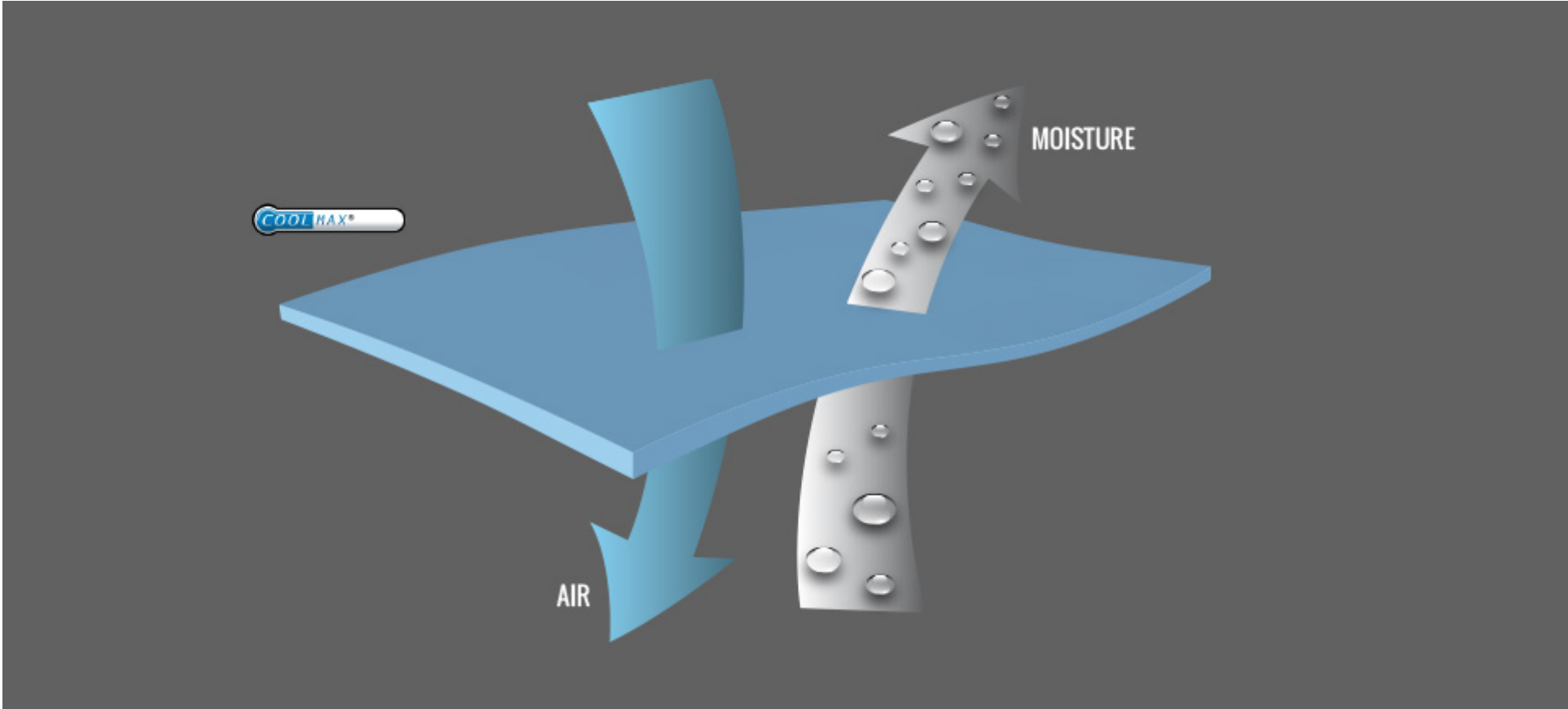


Cordura® denim with COOLMAX® material

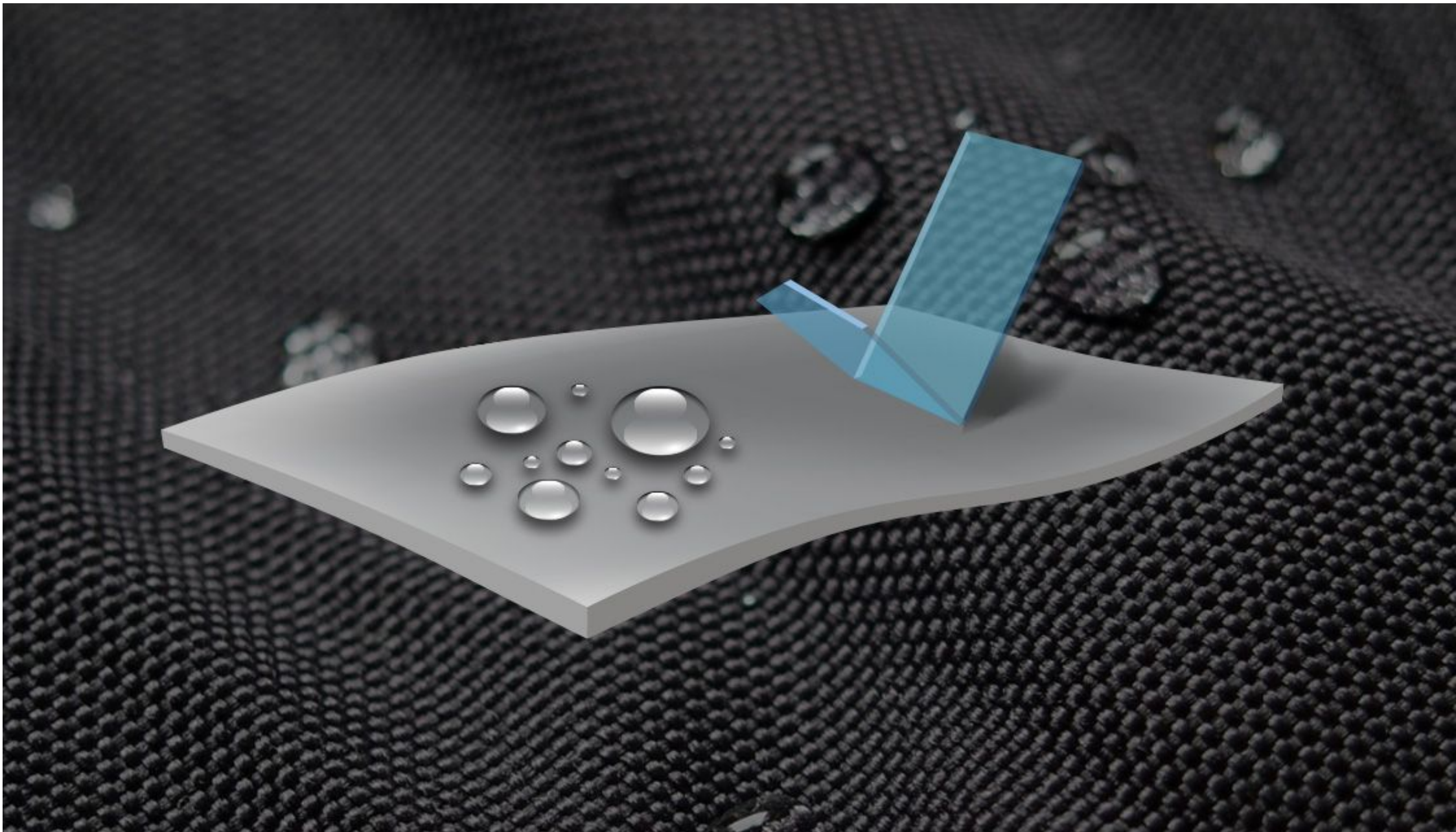
12.5 oz Cordura® denim with COOLMAX® fibers. CORDURA® Denim fabric helps the jeans last longer than traditional 100% cotton denim. CORDURA® Denim fabric retains the authentic look and feel of cotton denim, but with added abrasion resistance, and toughness. Jeans made with CORDURA® Denim fabric are exceptionally durable without compromising on comfort and style. Ride style and ride safe in TRILOBITE® jeans made with CORDURA® Denim fabric.

The main advantage of CORDURA® denim fabric is its extreme durability, tearing and abrasion resistance. At the same time it offers the feel and look of classic denim, therefore it gives the civil look to the apparel.

COOLMAX® technology is engineered for everyday comfort and performance. It has added cooling and drying performance to CORDURA® denim fabric. Adding the COOLMAX® fibers in denim means creating the moisture outlet system inside the fabric. This fiber system takes the moisture to the upper layer of the fabric which allows the rider to stay cool, dry and feel more comfortable when it comes on hot days.



Additional key benefits of CORDURA® Denim fabric include: The authentic look and feel of traditional 100% cotton denim. Exceptional abrasion resistance – Four times more resistant to abrasion than standard 100% cotton denim fabric. The heritage of the CORDURA® brand which has proven performance in many of the world’s toughest environments.



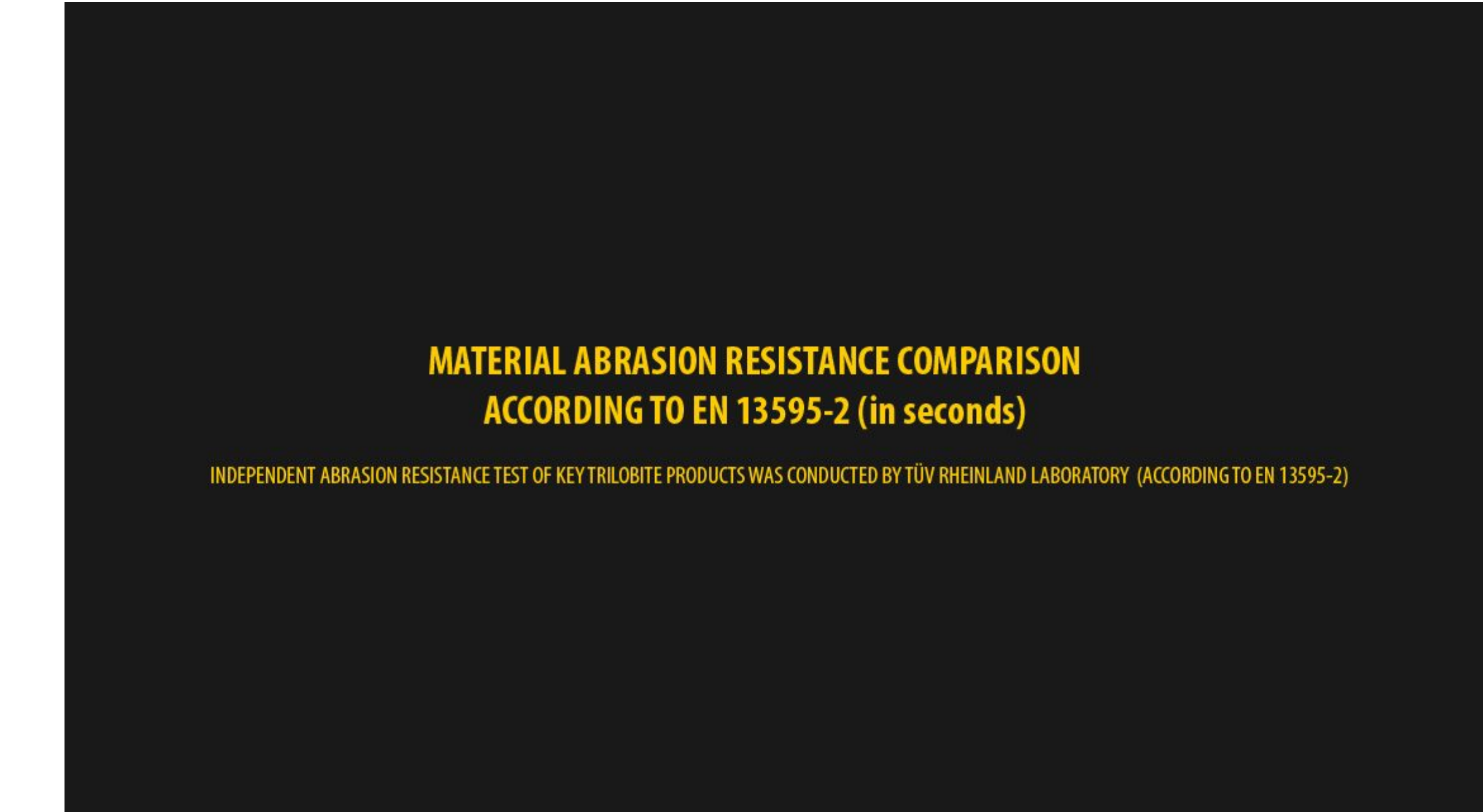
Technology

HYDROPHOBIC treatment

It concerns hydrophobic treatment of textile materials, knittings and other fabrics. On the surface there is a thin layer of nanoparticles and this way an extremely water and oil repellent surface is created. All Trilobite waterproof riding apparel is hydrophobically treated which gives the products additional waterproof properties.

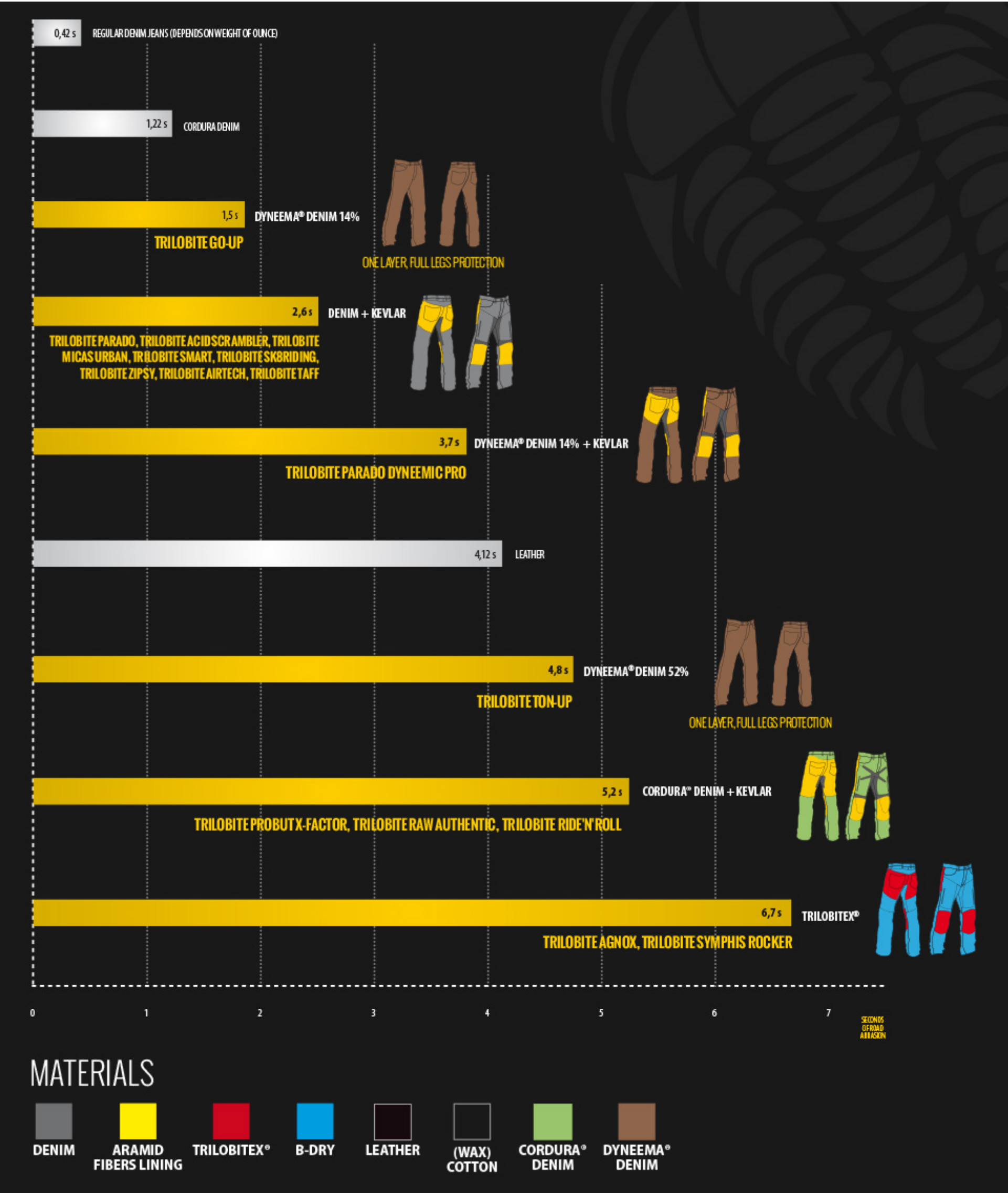
PRINCIPLE

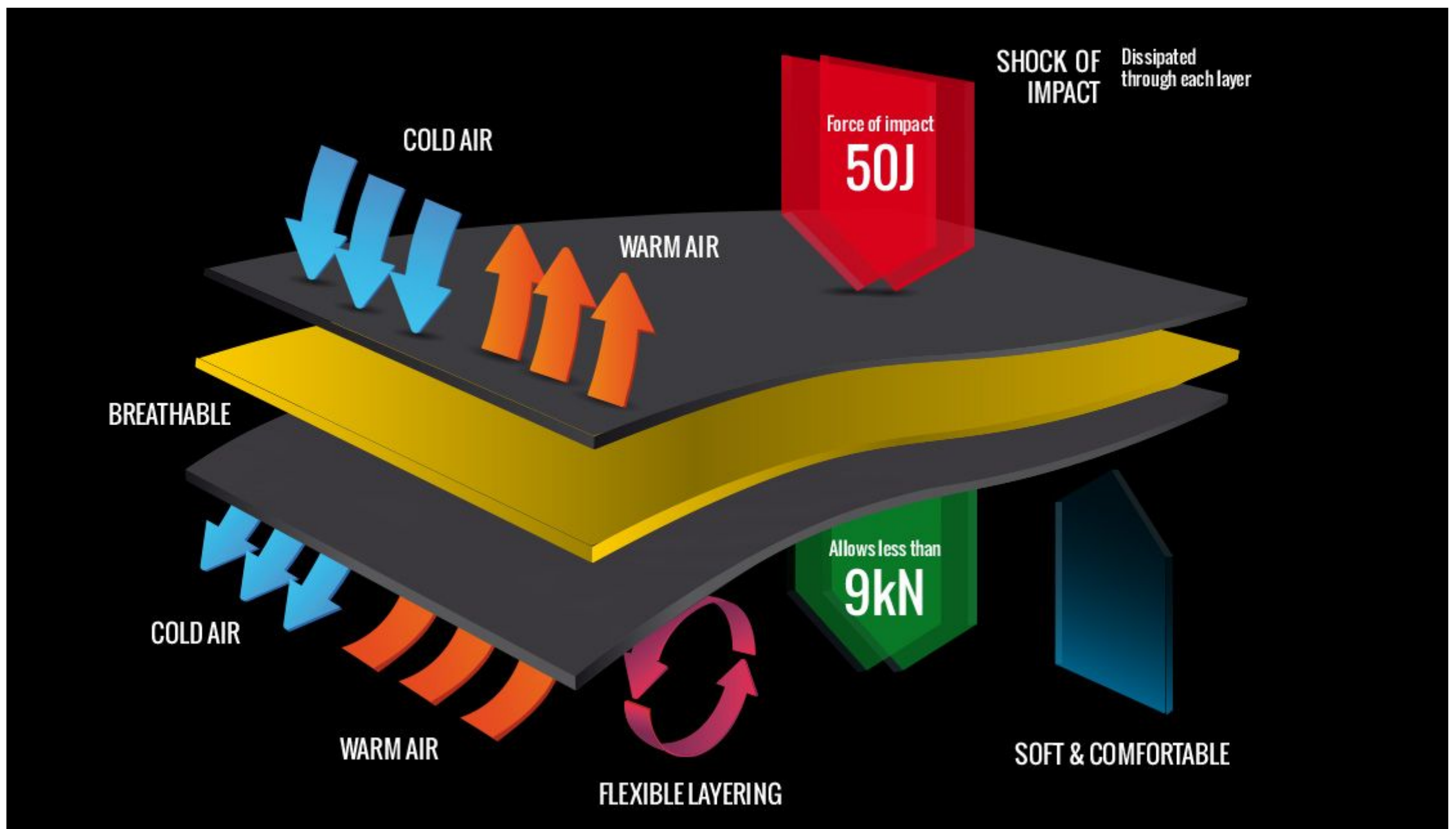
The principle of hydrophobic treatment is that every single fiber is covered with a thin layer of nanoparticles. The result is an extremely high level of hydrophobic features which gives no chance to liquids to stick to the surface of the material thus soil or even damage the fabric.



TRILOBITE JEANS ABRASION RESISTANCE INDEX

MATERIAL ABRASION RESISTANCE COMPARISON ACCORDING TO EN 13595-2 (in seconds). INDEPENDENT ABRASION RESISTANCE TEST OF KEY TRILOBITE PRODUCTS WAS CONDUCTED BY TÜV RHEINLAND LABORATORY (ACCORDING TO EN 13595-2)





TRILOBITE protectors

Trilobite® Premium Aramid Fashion presents a new range of protectors with 2019 collection. Trilobite made the next step forward and developed its own CE level 1 soft foam impact protectors which are made of innovative Trilobite® Techfoam PRO material. The complex branded range meets up to date safety standards and exceeds continuously increasing demands of riders on protection level. Futuristic design and a big portion of safety and comfort. The safety and visual aspect really matters here in Trilobite, therefore we have developed the protectors with separate layers and design stitching curves. We in Trilobite believe that also protectors deserve Trilobite® Premium Aramid Fashion presents a new range of protectors with 2019 collection. Trilobite made the next step forward and developed its own CE level 1 soft foam impact protectors which are made of innovative Trilobite® Techfoam PRO material. The complex branded range meets up to date safety standards and exceeds continuously increasing demands of riders on protection level. Futuristic design and a big portion of safety and comfort. The safety and visual aspect really matters here in Trilobite, therefore we have developed the protectors with separate layers and design stitching curves. We in Trilobite believe that also protectors deserve a nice and original look. All of this together creates foundations of Trilobite® Premium Protection.

- Trilobite® Techfoam PRO performance material
- Meets EN1621-2:2014 and EN1621-1:2012 standards
- CE 1 level
- Extreme shock absorption
- Multi-layer construction
- Elastic and flexible
- Ergonomically shaped
- Breathable perforation
- Lightweight

RIDE SAFE

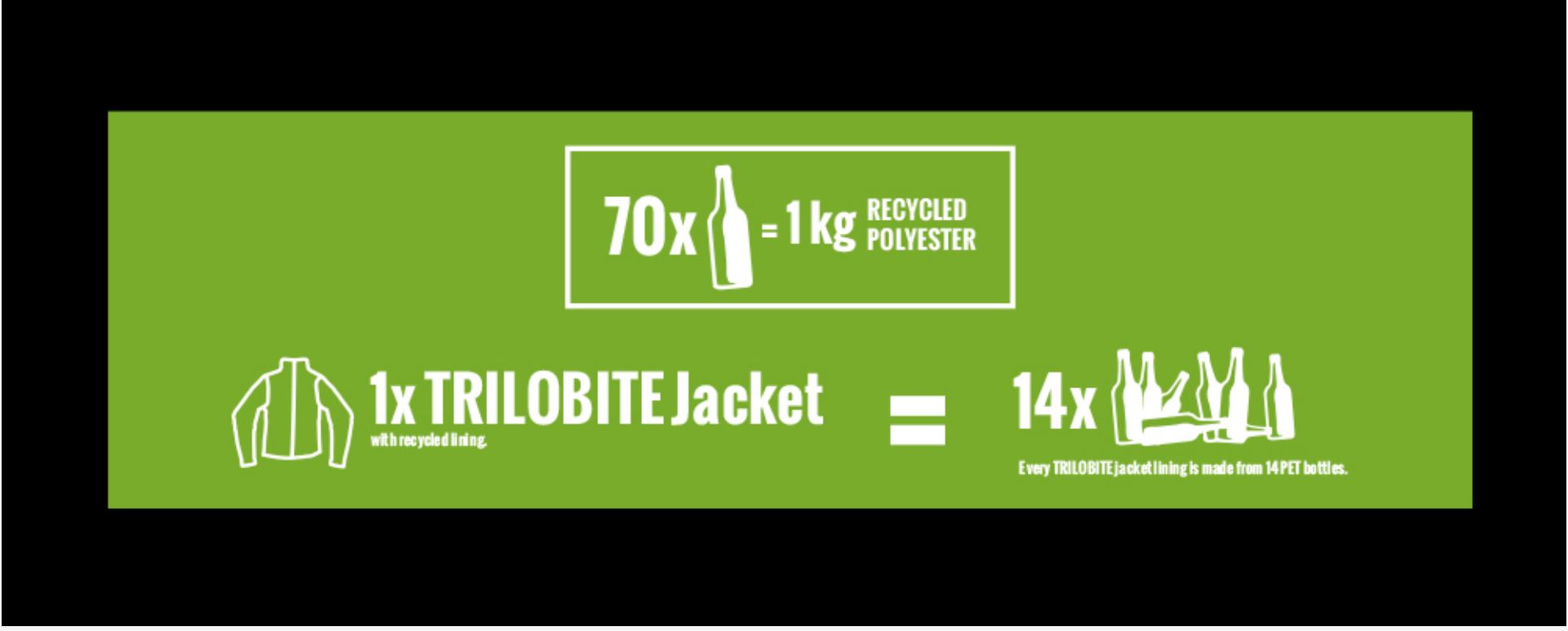
ENHANCE YOUR RIDING GEAR WITH TRILOBITE® PREMIUM PROTECTION !



TRILOBITE® RECYCLE STANDARDS

Trilobite® target is to change the conventional way of motorcycle apparel production. While in the sports apparel industry it is nowadays quite common to use recycled materials for garment production, especially in ski & snowboard technical apparel, in the motorcycle apparel industry it is a unique approach. **Trilobite® is probably one of the first motorcycle apparel brands which uses recycled materials for garment production.** Although Trilobite® is a motorcycle technical apparel maker, we still keep in mind the importance of a clean environment. We know it is not necessary to use natural resources in a careless way. Using waste as a raw material allows minimizing the consumption of natural resources. Trilobite® commits to help save the planet. **Trilobite® Premium Aramid Fashion future goal is to produce motorcycle apparel from 100% recycled materials.**

In 2019 collection, Trilobite is coming to the market with products, which contain either recycled polyester or recycled cotton.Using recycled cotton helps to reduce the use of virgin Cotton, and thus the significant water, CO2 and other impacts from cotton farming. The pre-consumer Cotton from industry and post-consumer Cotton from discarded clothes goes to grinding process and then raw material is made again. After that, the raw material is processed into yarn and the yarn is turned into recycled Cotton.



Besides recycled Cotton, Trilobite® also uses recycled Polyester. By integrating 100% recycled polyester fabrics in garments Trilobite® is keeping bottles and other plastics out of the ocean. By taking 70 bottles out of the ocean we get 1 kg of recycled polyester. 14 bottles collected from the ocean to be used during the production of 1 Trilobite jacket for the lining. Besides, we help to save also the energy, because the energy consumption during the production of recycled Polyester is less than what is needed to produce the virgin Polyester. In particular, it takes up to 53% less energy.



CLOSING THE LOOP ON DENIMS LIFECYCLE

What will you do with your jeans when they are no longer fit for wearing? Throw them away? But what happens then? Will they disappear?

Many individuals separate and recycle paper, plastics, and domestic waste, but not enough people responsibly recycle the textiles.

Denim jeans are made mostly of the seemingly pure and all natural Cotton plant. This thirsty cotton plant depends on fertile land, intensive irrigation, pesticide spraying and a sunny climate in order to thrive. An average pair of jeans uses up to 3,78 litres of water in its full lifecycle. 70% of this precious water is being used in cotton farming alone.

The majority of the worlds textiles are made of man made plastic fibers which then break down into hazardous waste when dumped in landfill. The enviroment cannot keep up with fashions constant rotation of fashion clothing which obviously create an unacceptable amount of wastage.

Recycling denim and textiles is the only way to close the loop on clothing's linear lifecycle.

Trilobite® cooperates with denim brands that are developing innovative ways of recycling old denim into new denim garments. The old denim garments are deconstructed into scraps and shredded into raw cotton again, just like how it began. This Cotton fiber is then blended with virgin cotton to ensure good tensile strength and woven ito new denim fabric. By cutting out the agricultural process, jeans crafted with at least 15 percent recycled cotton save as much water as the entire manufacturing process consumes.

