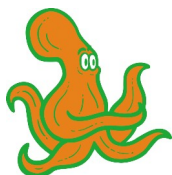


FARAMUGO and NANOMEMBRANE CLOTHING 2014 - 2024.

In Faramugo, we can help you go on a challenging expedition to the highest hills, a trek with a tour operator or just to circumnavigate the lake. We focus on the production of Czech nanomembrane fabric. And why octopus? Because it's here.

And why not? Animals and plants belong in the outdoors.



Do you know what it takes to sew a nanomembrane jacket?

For example, the Anorak 3L jacket. We assemble it from 30 pieces of material and about 18 suppliers are involved. From manufacturers and importers of haberdashery, zippers, thread, duct tape. All the way to the manufacturers of the machines needed to assemble it. Otherwise, there are six machines involved in the production of the jacket.

Why do we understand what we do?

SINCE 1991. We sewed in the 90s of the 20th century as DAB. Down clothes and sleeping bags, jackets, paragliding seats. We resumed production in 2014 under the brand FARAMUGO. Which is 90% Somali octopus. So the turn of 2023/2024 is the 10th birthday of our octopus. During that long gap, we competed in athletics, mountain biking and scooter riding. We've climbed mountains, traveled and parachuted. And raced down the wild rivers of Europe and Asia. We have about 130 summits of the Alps and other mountains above 4,000 m, the north face of the Grandes Jorasses, many expeditions to the Asian mountains with first ascents in the Pamirs and Altai (Ak Alacha, Pik Bars).



How does this help our production?

We wear outdoor clothing all the time ourselves with enthusiasm. We draw on our experience, we have also tested for other manufacturers. We are properly educated in the field and employ hard-working people. We produce everything honestly in our workshop in the middle of Europe. Every product goes from A to Z through our hands. We adapt to your requirements for size, colour combination, different finishes. We pay attention to the functional details of the product. Nanomembrane may not be a revolution, but it is definitely an evolution, a step forward. It excels especially in vapor permeability and Faramugo is the 1st on the planet to sew with it (as of early 2015). We're being planet friendly, what you can still use, we'll fix. And not only our own products. We are simply open to innovations and wishes as "your czech mountain tailor".

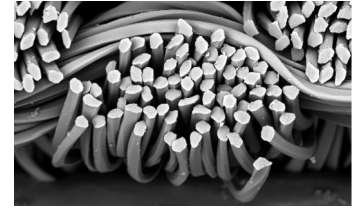
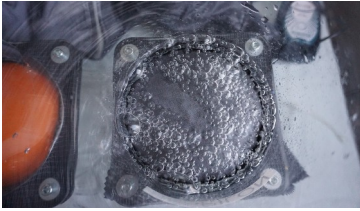


By prioritizing an honest approach to work and life, we offer quality products with quality service. We don't make as much on a Czech jacket as we do on one made with cheap labour. But we also don't have excess inventory from overflowing shipping containers. Of course, quality is not cheap and we cannot compete with Asian production on price. We are therefore grateful to anyone interested in our products.

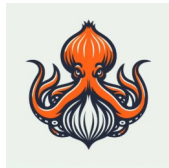
At Faramugo, we're not fans of seasonal collections either. Always a new model of jacket, bike or skis. That's not necessary, people's needs don't change that quickly. Last year's jacket works just as well as this year's. We don't want

nature to suffer too much, it's unsustainable in the long term. In our products we prefer functionality over fashion, so we offer a stable collection, but we are not afraid to innovate.

Nanomembrane may not be a REVOLUTION... But it is definitely an EVOLUTION!



A little about layering clothes.



We go outdoors dressed in multiple layers of functional clothing, inspired by the onion. But the whole only works if we put it together properly and eliminate the weak links in the system.

What are layers for?

If I work with layering incorrectly, I risk hypothermia or overheating. Apart from the risk of getting sick later, the body tries to cope with our mistake in its own way. It expends unnecessary energy to achieve balance and fatigue comes sooner. And that increases the risk of misjudgment, causing subsequent stumbling and falling. On a mountain hike, I wear a thermal shirt as my 1st layer. Tight underwear whose job is to quickly transfer moisture away from the body to the next layer. The 2nd layer is a fleece sweatshirt. It has a similar task, but it already insulates more and gives us warmth. The 3rd layer is already a barrier, preventing heat loss. The body generates it during exertion, but it's immediately stolen by the wind. It also cools the snow and rain. When everything is in tune like an orchestra, the water vapor generated by perspiration is let out by the clothes, preventing the body from cooling due to the moisture and the loss of fluids at the same time. Nanomembrane clothing is the top layer.

A little note in conclusion. Let's stay on planet Earth. Even the best clothes can't save us. Let's be sensible.

What are membranes and what can they do?

Production-intensive technical films with specific properties. They undergo lamination, where the manufacturer inserts a membrane under the top fabric and protects it with a lining. Any membrane will stand up to the rigours of movement. For mountaineering and demanding hiking in poorer weather conditions, when the slope is steep and the pack is heavy, only the good quality ones will do. Membranes will not blow away in the wind and should not get wet easily. Even ordinary plastic can do that. But the membrane can still breathe outwards, away from the body. Humans live on planet Earth, 100% of nothing works. It's also impossible because we're all different. But there's nothing better, so let's give the membrane a chance to show what it can do. Vapor permeability, that's the property we're after.

What are the types of membranes? What about the nanofibre one?

Membranes are divided into microporous and hydrophilic. They have their advantages and disadvantages. But at Faramug we work with nanofibre technology. What's the difference?

Non-organic PTFE is not used. The nano-membrane does not contain pores but fibres. The Czech company Svitap has created a new dimension in membrane clothing. In vapour permeability, the ability to wick sweat away from the body. The upper fabrics are made of polyester or polyamide and also of natural materials such as cotton. Svitap is the 1st company in the world to industrially produce nanofibre membranes with fibre diameters below 150 nm.

Nanofibres in textiles are considered to be the fabrics of the 3rd millennium and are set to revolutionise dressing. Nanofibers are loosely packed in textiles and allow air to pass through, but water does not leak through. Nanofibers will replace older membranes. In particular, they outperform them in vapour permeability, and this is key to the comfort of wearing the garment. Nanofibre membranes are soft and lightweight.

Faramugo is the first in the world to sew outdoor clothing with a nanomembrane.



At Faramugo we have been working with Czech Nanomembrane materials since the day the university research was put into practice, i.e. since the end of 2014. At that time, Svitap invited us to cooperate and provided us with the first test meters of nanomembrane fabric. The first jacket made of this test material has travelled a lot with me. In 2016, nanomembrane fabrics were tested by the American company Outdoor Research and today nanomembrane clothing is also made by The North Face. But only we at Faramug can say that we are truly the first in the world to market nanomembrane outdoor clothing. NANOMEMBRANE MAY NOT BE A REVOLUTION, BUT IT'S DEFINITELY AN EVOLUTION!

Benefits for you? Windproof. Water resistance or water column. Water repellency. Vapour permeability!

Nanomembrane "breathes" much better, it has extreme vapour permeability. You can press such a jacket into a backpack without it automatically delaminating (layers separating) after some time. The fabric is very soft and airy. The nano-membrane allows lamination with stretch fabric.



Can nanomembrane clothing compete with Gore-tex?

Nano-membrane clothing is becoming an increasingly popular alternative to traditional Gore-Tex. And sure, both technologies have their advantages and disadvantages. Gore-Tex is a hydrophilic membrane with pores smaller than a drop of water but larger than a molecule of water vapor. This allows moisture to wick away from the body while preventing water from seeping in. Nanomembrane clothing works similarly, but instead of pores it has fibrous nanoparticles. Nanomembrane clothing, however, has the advantage over Gore-Tex in that it is lighter and thinner, allowing for greater freedom of movement and a more comfortable fit. Another advantage is that it is made from environmentally friendly materials. The fabric is not prone to clogging with dirt, which can clog pores. So each technology has its advantages and disadvantages. It depends on the needs and preferences of each user, where they move and under what conditions.



Durability of membrane fabrics.

The life of membrane clothing is not unlimited either. Lamination is the joining of even 3 different materials together. And the fabric is affected by weathering, bending, folding, washing. No, membrane clothing is not made of sheet steel. But at Faramug, we have enough experience with nano-membrane to know its limits. And they're fully on par with any top competition.



Care and maintenance of nanomembrane fabrics.

Nano-membrane clothing can of course be washed. But in a sensible way, excessive washing will accelerate the unstitching of the individual laminated layers. Wash gently by hand, but also in the washing machine on a gentle programme at a low water temperature of 30°C. Fasten the zippers, including the velcro ones. Use an outdoor liquid detergent. Avoid detergents and fabric softeners. Wash and wring the garment very gently. The garment can be gently run through the dryer on the appropriate programme, the heat will activate the water resistance. Or hang-dry it, just not in direct sunlight. Clothes can also be ironed, but always over cotton fabric. And don't be afraid to use sprays to increase water repellency.