

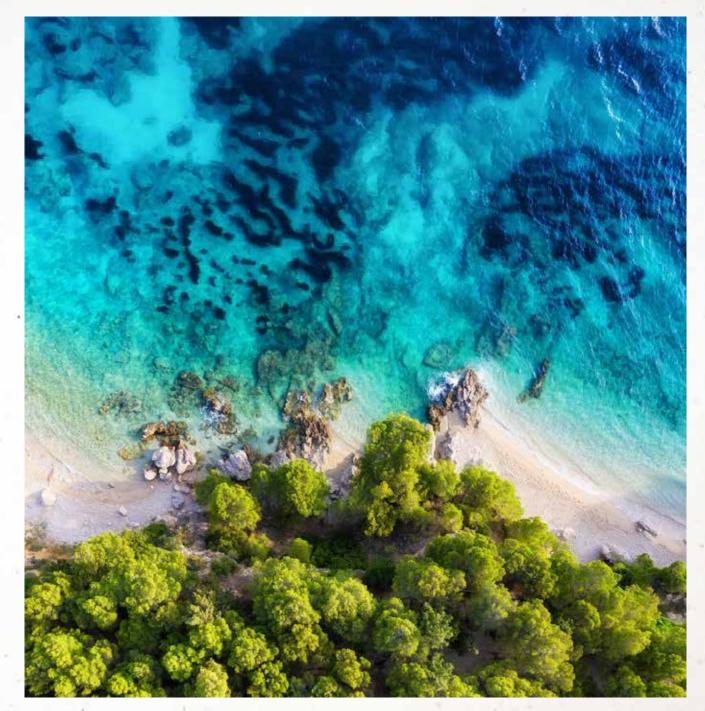
#### **OUR MISSION**

Life Materials offers solutions and materials to designers, artisans and companies that want to make innovation, as well as ethical and environmental responsibility, their top priority. Cutting-edge materials that are carefully selected and worked according to the best traditions and craftmanship to make accessories, clothes, furniture and transport materials that have one common goal: living in a plastic-free world in which the respect for the environment and circularity are of paramount importance.

At the core of Life Materials is the respect for the world's ecosystems and humanity: 100% non-petrolium-based materials and ethically sustainable solutions that do not require the use of any substance considered to be dangerous or harmful to any living being, nor the use of any animal-based product.

For those who have embraced (or want to) our vision: a more circular approach to innovation and a plastic-free planet!

A world without oil, it might be hard to imagine but, as they say, "where there's a will, there's a way!"



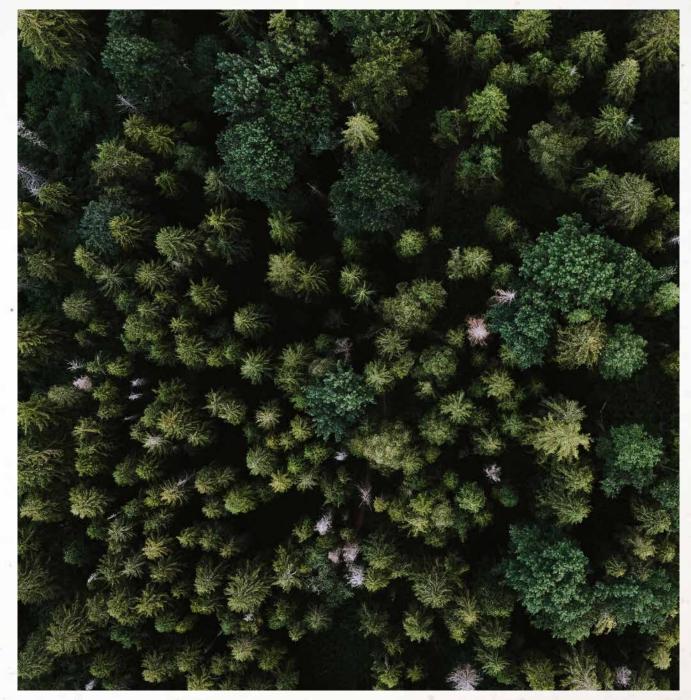


Beyond the electric vehicles that are already buzzing around our cities. A world without all the polymers that surround us in our homes and offices. Synthetic molecules that can be used to make many almost indestructible tools, furniture and clothes. A lightweight and colorful world that is generally quite cheap, yet very harmful to the bio-global balance, which may never fully heal.

This has been the vision of Life Materials for over 15 years, a constant effort to build and develop cutting-edge materials: the bricks of a "new" low-impact house that, so far, has not gone beyond its foundations.

Padding made from flowers; paper and leather made from giant mushrooms; pesticide-free fabrics and fibers made from wild plants. Materials that are either developed in laboratories or sourced from areas that are far away from all major business hubs and channels.

Life Materials offers a wide range of products to any company that wants to adopt a business model based on a new paradigm: the world seen as a great, unique and sustainable organism that can sustain itself and regenerate.





#### INDEX

#### Leather alternatives:

MuSkin5Korteccia9Flex tree11Pod Peel12Made from Malai13

#### Papers:

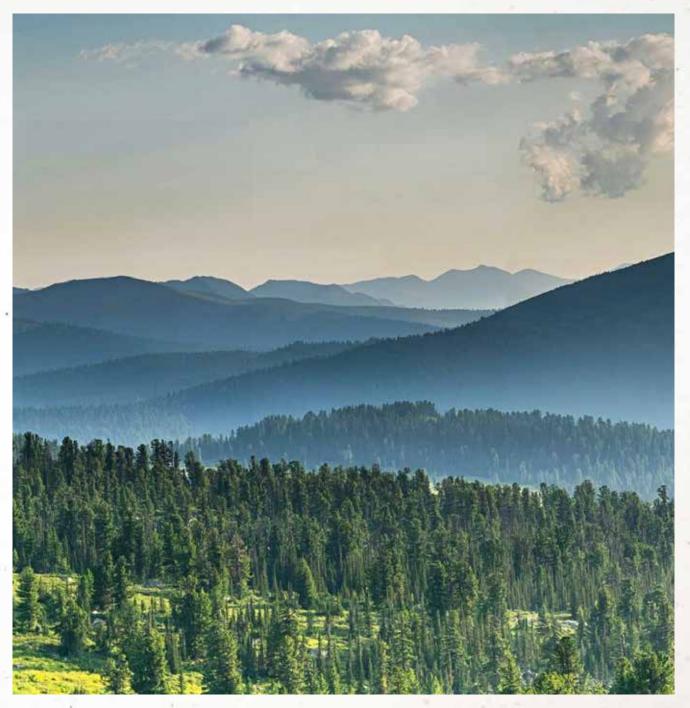
Alga carta 14
Banana skin 15
Denim paper 16
Hemp paper 17
MuSkin paper 18
Plantable paper 19

#### Fabrics:

Cypress denim 20
Nettle denim 21
Paper fabric 22
Weganool fleece 23
Weganool woven 24

#### Paddings:

BioGreen polymer 25 Kapok natural fiber 26 nVeg 27





#### MuSkin

MuSkin is a 100% vegetable eco-layer that may be alternative to animal leather. It comes from the Phellinus Ellipsoideus, a large parasitic fungus that grows in the wild and attacks the trees in the subtropical forests.

MuSkin's soft surface has a "touch" very similar to a suede-like leather products and its consistence, or texture, goes from soft to slightly harder as cork. The total absence of toxic substances makes MuSkin ideal for the use in close-to-skin applications and thanks to its very natural origin and to the presence of endemic penicillins, it can limit bacteria proliferation.

MuSkin has the capacity to absorb moisture and then to release it in a short time, just like a fabric. It is not waterproof in its natural form, but it can be treated with eco wax.

To make the selection easier we divided the material into three sizes: small, medium, large and into two grade quality specifications: first and second choice. The second choice may have visible defects like holes or a scratched surface.

The material may not have a consistent surface. Every piece is a unique product from our Earth.



Cod.	Composition	Quality	Size	Height	Widht	Thickness	Colour
MSKN-1L (2L)	100% mushroom	1st choice (2nd choice)	L	17-25 cm	30-45 cm	0,5-1 cm	Natural
MSKN-1M (2M)	100% mushroom	1st choice (2nd choice)	М	13-20 cm	23-30 cm	0,5-1 cm	Natural
MSKN-1S (2S)	100% mushroom	1st choice (2nd choice)	S	10-15 cm	15-22 cm	0,5-1 cm	Natural











MuSkin ankle boots by Drew Veloric



#### MuSkin FAQ

This is a FAQ about MuSkin. It derives from experiences from costumers, artisans and manufacturers. Many other processes need to be tested and the FAQ is a work in progress, it will be updated time to time. If you need more help, ask directly to LifeMaterials' email: store@lifematerials.eu

They could support you in the treatments!

# MuSkin is a fabric? A leather? Could you provide it by meters?

First of all: MuSkin is \*NOT\* a fabric nor a leather. It's offered in pieces of various dimensions that may vary time to time and that are merely indicative. We don't offer it by length, only by pieces.

MuSkin's indicative sizes:

SMALL: 10~15 cm x 15~22 cm

MEDIUM: 13~20 cm x 23~30 cm

LARGE: 17~25 cm x 30~45 cm

Product's dimensions are merely indicative, the products properties may vary for each

piece.

#### Can I use it like animal leather?

Well, it depends: MuSkin can be used like animal leather in the sense that can be an

extremely valid substitute to animal leather in almost any product. In some cases it is even better: it is more transpirant, it has a strong charge of Penicillin antibiotics so it is particularly suitable for skin contact and prevents the formation of molds. Moreover it does not contain any oil-derivated or chemical substances. Cons? Yes, see next question.

# You stated that MuSkin can be used like animal leather, but is it strong enough?

Simply: No. Muskin has not the same mechanical strength as animal leather has. It tends to tear apart on tearing and it suffers on abrasion. However these two weaknesses can be successfully resolved by coupling it with other backing materials (such as fabrics, canvas, Vlieseline, cardboard and so on) and by natural treatments like the Carnauba oil.



#### How much is it durable over time?

Regarding the durability of MuSkin: as for the bags samples we have (made by some specialized artisans in 2008), after 10 years we did not notice any surface alteration of the material. So, as far as we know, MuSkin is a quite durable material over time.

#### Ok, so I need to laminate it, how?

We successfully used to couple MuSkin with various fabrics and also with Vliseline with 120 °C heat and compression for about 15~20 sec. The above treatment also compacts the structure of MuSkin and helps on minimizing its thickness. All the treatments used for animal leather work on MuSkin too. We use to laminate MuSkin with Lyocell (a fabric realized from wasted cellulose) and we can offer such lamination as a service.





#### Can MuSkin be washed and how?

Like suede, when wet, MuSkin becomes more fragile and can suffer tearing more than in dry state. So we advise to clean it just like suede. However when dried, MuSkin (it dries like a fabric) regains its properties completely. It can be treated with waterrepellent and hydrophobic products used for leather as well. Q: MuSkin would fit my needs but its thickness is huge, how do I resolve this?

A: If your goal is to thinner it, we suggest to use heat and compression as above.



Alternatively it cat be splitted (with machines used also for animal leather). Anyway, we don't recommend slicing MuSkin, as this could weaken it. Instead we recommend ironing or plating, as this gives a consistent thickness reduction (that remains steady in time).

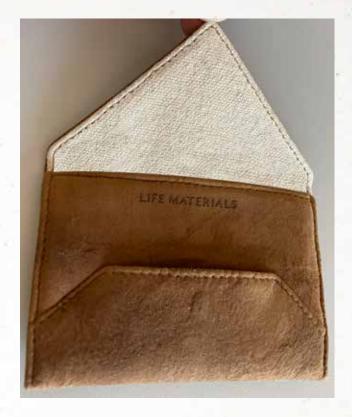
#### Can I dye it?

We did not tried yet because we love its natural colour. BUT, since MuSkin is a very porous material, it should absorb colours very well. Dyeing techniques and colours suitable for leather can be used with MuSkin. At the moment we do not know techniques to discolour it, so the dyeing is limited to darker colours. It is up to you to experiment!

# Is there a quality control? A grading system? Tolerance? How can you set up a qualitative supply?

MuSkin is completely natural and 100% made of mushroom therefore its quality and consistency/texture can vary from piece to piece.

We can't set a standard or guarantee that every piece is the same. Although we always check every single MuSkin and label as "second choice" those that have some kind of defect like scratches or holes.



# Which quantities can you guarantee? Is there a monthly supply?

There is no standard monthly supply, as this depends on the quantities of mushroom we find. MuSkin comes from a parasite mushroom that can not be cultivated, it is collected in the woods. It also comes in different shapes and sizes. Availability also changes during the year.

If you need large quantities just let us know size an number of pieces you need and we will estimate if we can cover your needs.



#### Korteccia

Korteccia is made out of a tree bark fleece and is also known as "barkcloth". Korteccia is a traditional Ugandan material produced for centuries with traditional craft techniques and is Uganda's sole representative on the UNESCO Intangible Cultural Heritage Lists. Historically the fabric has been used in home furnishings, such as curtains, drapery, upholstery, and slipcovers.

It was used as wallcover at the G7 summit in Germany.

Considered the precursor of modern nonwoven fabrics, Korteccia is made only with the bark of the East African "Mutuba" fig tree which regenerates very quickly, with no damage to the actual tree.

After being peeled from the trunk and manually processed, the bark becomes a cloth and its production results in low energy consumption and low CO2 emissions. Being a mono-material, indeed it is made exclusively from bark fibre, Korteccia contains no binders, dyes or other additives.

All the production processes of Korteccia comply with the guidelines of ILO (International Labor Organization) and SA 8000. EU Eco Regulation 2092/91 certified.









Cod.	Composition	Height	Widht	Colour Natural	
KRTC40	100% bark	30 cm	30-45 cm		
KRTC80	100% bark	60 cm	80 cm	Natural	







LIFE MATERIALS

Leather alternatives

#### Flex Tree

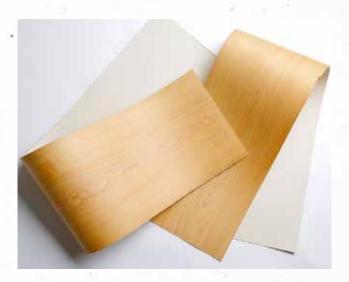
Flex Tree can be considered as an alternative to animal leather. With a special treatment, the wood becomes flexible, sewable and washable. It is 98% flexible in the direction of the wood grain and transversely to it, not thermo-formable but resistant up to 80°C. It can be engraved with a laser. It is water- resistant therefore washable and it is sewable by hand or machine just like a normal leather. It is soft to touch like leather.

The cypress Flex Tree essence is backed with bio-based, natural 100% hemp canvas. It is suitable for accessories as belts, bags, clothes inserts, shoes and leather-alternative goods as well as in interior design and decoration.

The wood comes only from sustainable forests to ensure the respect of the environment and the trees life cycle through a rational and controlled use, supporting the necessary recycling and reforestation.

The material is certified CITES (Convention on International Trade of Endangered Species) and FSC/PEFC (Forest Stewardship Council). It is backed with hemp fabric (100% hemp).







Cod.	Composition	Height	Widht	Thickness	Colour
FLTR-HEMO41	Cypress wood essence	41 cm	28 cm	0,6 cm	Natural
FLTR-HEM125	backed with hemp canvas	125 cm	28 cm	0,6 cm	Natural

#### Pod Peel

Pod Peel is a vegan leather alternative that comes from carob, a flowering evergreen tree of the legume family. The carob pod is mixed with recycled paper cellulose and natural hevea brasiliensis rubber. It is totally hand made in Portugal.

Pod Peel is resistant to tension, stretching and abrasion forces, is elastic malleable, has an excellent "threaded" finish and has great performance for sewing. This material can be applied in bags, shoes, jackets or raincoats, and is also an asset to the area of decoration. 100% natural, handcrafted and biodegradable.









Cod.	Composition	Height	Widht	Thickness	Colour
*	80% carob - 20% cellulose and	50 cm	70 cm	~ 1 mm*	Natural
	natural rubber	50 cm	70 cm	~ 1 mm*	Black

<sup>\*</sup> There are variations in thickness due to the manual process.



#### Made from Malai

Malai is a newly developed biocomposite material made from bacterial cellulose, grown on agricultural waste sourced from the coconut industry in Southern India. The word 'Malai' refers directly to the creamy lesh of the coconut and it is the coconut water that sustains the bacteria whilst they are producing the cellulose, which is then in turn collected and reined until it becomes the finished material: Malai.

Vegan: Malai is completely vegan and as such you could even eat it!

Sustainable: all our ingredients are sourced from trusted partners all over India.

Breathable: Malai is quite porous as a material. We ensure all our coatings maintain this property.

Strong: Malai's strength is comparable to vegetable tanned leather of similar thickness.

Healthy: it contains absolutely no artificial 'nasties', it will not cause any allergies, intolerances or illness.

Water resistant, although it prefers not to get wet as it loses some of its strength.

Recyclable: Malai is made from cellulose fibres that can be recycled into paper products.

Flexible: Malai is material with semi soft temper similar to veg tanned leather.







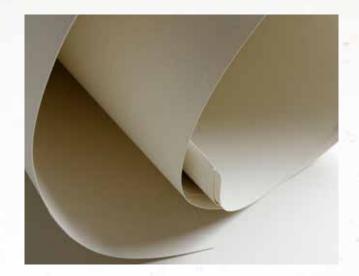
	Cod.	Composition	Properties	Height	Widht	Weight	Colour
	CCTH-120B	100% bacterial cellulose + banana fibers		120 cm	80 cm	450 gsm	Dark indigo
	CCTH-040B		Water resistant + sewable	40 cm	30 cm	450 gsm	Dark indigo
	CCTH-120R			120 cm	80 cm	550 gsm	Madder red
1	CCTH-040R	1		40 cm	30 cm	550 gsm	Madder red



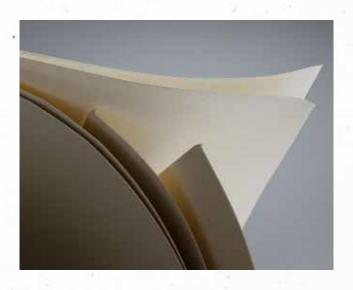
# Alga Carta

Alga Carta is made from a combination of FSC controlled wood pulp and pest algae sourced from the Venice lagoon.

The creation of Alga Carta dates back to the early 1990s, when the Venice Lagoon was infested with an abnormal amount of algae that, due to artificial nutrients in the polluted waters and continued high summer temperatures, began to grow abnormally, making the ecosystem unstable. The Venice Water Authority, with the Consorzio Venezia Nuova, began collecting algae to prevent deoxygenation of the Lagoon and the subsequent death of the aquatic native organisms. Since pest algae are a difficult material to dispose of, various possibilities for recycling it began to be explored and one of the solutions, sponsored by the EU with the LIFE project, was to use it in papermaking. Thus in 1993 the first sample of Alga Carta was created. Alga Carta complies with the ISO 9706 requirements concerning stability, furthermore, it is suitable for applications requiring "Acid-Free" paper and it is fully biodegradable and recyclable. Available in B1 foils (70 cm x 1 m -27.56 x 39.37 inches) in two weights (90 and 350 gr./sq. meter) and in ivory color.









Cod.	Composition	Height	Widht	Weight	Colour
ALGP090	Cellulose from FCS wood pulp +	100 cm	70 cm	90 gsm	lvory
ALGP350	algae from the Venetian lagoon	100 cm	70 cm	350 gsm	Ivory



#### Banana Skin

Banana Skin is an hand-made paper sheet made from the eco-friendly fibers of banana trees.

Banana trees are highly renewable plants that regenerate all year round. Generally, once chopped down, they are normally left in the jungle as unwanted waste, however, some local farmers in India had the idea to collect and transform the chopped banana trees from waste to wealth by using it to produce paper.

Aside from being strong enough to hold its heavy bunches, the banana trunks provide a particularly strong and very beautiful fiber that has been widely used for thousands of years to make ropes and, more generally, for weaving purposes.

Banana fiber is cruelty-free, bleach-free and tree-free, moreover, it is also recyclable and naturally resistant to water, fire and tear. The farming of these banana trees is fully sustainable as it uses only rainwater that is collected on site and waste from the same plant as soil additive.

Banana skin is similar to standard paper and it comes 56×76cm sheets

Color: natural light-brownish









Cod.	Composition	Height	Widht	Weight	Colour
BNSK180	100% cellulose and fibers from wasted banana trees	56 cm	76 cm	180 gsm	Natural

# Denim paper

Denim paper is a great way to give a second life to denim, a precious fabric used to produce the famous jeans, which can be reused thanks to our customized papermaking process.

This is a second life for a noble material that, at the end of its function, come back to life in the mixture with cellulose, the essence of all paper production.

Very environmentally friendly and strictly handmade according to Fabriano's world-famous artisan tradition (Fabriano was one of the earliest places in Europe to make high-quality paper on an industrial scale, starting in the 13th century), Denim paper is made with denim from the production waste and second-hand goods, mixed with cotton cellulose. No chemical additives are added to the mixture, and the entire process is carried out using ancient craft systems handed down through the ages to meet today's ecological need to give new life to materials that would otherwise be disposed of as waste.

The Denim paper is completely

The Denim paper is completely biodegradable, stitchable, washable (machine washable - maximum 30°) and recyclable.





Cod.	Composition	Height	Widht	Weight	Colour
DNPP200	100% industrial denim waste	76 cm	56 cm	200 gsm	Light denim blue



# Hemp paper

Fabriano is a town and comune of Ancona province in the Italian region of the Marche. It has an ancient tradition in paper making. Fabriano was one of the earliest places in Europe to make high-quality paper on an industrial scale, starting in the 13th century, and the town today has a great reputation for fine paper making.

Strictly handmade according to the worldwide well-known Fabriano's handcraft tradition, Hemp paper is made from 100% hemp fiber that gives the paper a very high environmental values. No chemical additives are used in the production process, which is carried out by hand and by using ancient craft systems handed down through the ages to meet today's ecological need to give new life to materials with the respect of the environment.

Compared to wood pulp, hemp pulp offers a four to five times longer fibre, a significantly lower lignin fraction as well as a higher tear resistance and tensile strength. Hemp doesn't need pesticides or herbicides.

Hemp paper is sewable, washable (maximum 30° in a washing machine) and fully biodegradable and recyclable.









 Cod.	Composition	Height	Widht	Weight	Colour
НМРР200	100% hemp fibers	76 cm	56 cm	200 gsm	Natural

# Muskin paper

Muskin Paper is the result of a circular economy project. From Muskin's scraps and pieces that cannot be used because they are ruined or naturally have holes and scratches comes the idea of ennobling and transforming them into a new product.

Muskin Paper is therefore an up-cycling project born from the collaboration with the worldwide, well-known, craftsmen of Fabriano in Italy, master papermakers since the 13th century. No chemical additives are used in the production process, which is carried out by hand, according to traditional methods, and using ancient craft systems handed down through the ages to meet today's ecological need that respect the environment.

What's Muskin? Muskin is a 100 % vegetable alternative to animal leather made from Phellinus Ellipsoideus, a large parasitic fungus that grows in the wild on the trees located in subtropical forests.

Muskin Paper is fully biodegradable and

recyclable.

Every piece is a unique product from our Earth.

This "paper made of mushrooms" is available in 56 x 76 cm sheets.









Cod.	Composition	Height	Widht	Weight	Colour
RMSKNO1-RW180	100% mushrooms	76 cm	56 cm	180 gsm	Light brown

# Plantable paper

Plantable paper is made from 100% recycled cotton cellulose mixed with alive seeds. Hidden among the cellulose, indeed, this paper contains small field grass (300gsm paper) or daisy (300gsm paper) live seeds that can sprout again when the paper is disposed of in the environment.

The production process, held by the worldwide well-known papermakers in Fabriano (Italy), is carried out without any chemical additives, bleaching or whitening agents, using ancient craft systems handed down through the ages to meet today's ecological needs. Moreover the paper has a neutral pH to ensure long-term inalterability. To achieve this goal the paper is air-dried to maintain the seeds preserved and alive. Plantable paper can be planted both in the ground or directly in a moist cotton pad. In the summertime, it takes about 10 days to grow while in winter, if kept at home, it needs about 15/20 days.

Plantable paper is available in 56×76cm sheets (about 22''x30'') with daisy seeds (300gsm paper) or with field grass seeds (300gsm paper). Available upon request, from 300 gsm to 900 gsm.









Cod.	Composition	Height	Widht	Weight	Colour
DPLP300	100% recycled cotton cellulose + live daisy seeds	76 cm	56 cm	300 gsm	Off white
GPLP300	100% recycled cotton cellulose + live field grass seeds	76 cm	56 cm	300 gsm	Off white

# Cypress denim

Developed during a study about the impact of natural fibers on people's skin, Cypress denim is made from a Japanese cypress tree variety that provides high-quality fibers with excellent antibacterial and antiseptic properties. Cypress denim is ideal for skin-to-skin applications, moreover it also has the relaxing properties of cypress, which is considered a therapeutic plant by the feng-shui practice. The production cycle of the cotton used to manufacture Cypress denim (ECOTEC® certified) is fully traceable and made in Italy using 100% pre-dyed leftovers from textile plants (also pre-consumer). The cotton is transformed into yarns that are suitable for top-quality productions that feature a high level of added sustainable value. Tested (UNI EN ISO 2064) for antibacterial

efficiency of Cypress/Cotton fabric against Klebsiella pneumoniae and Staphylococcus aureus: bacterial growth reduced respectively by 60% and 85%.

With a composition of 94% recycled cotton and 6% cypress, Cypress denim is sold by meter: total height 166 cm. (65.35 inches) of which the workable height is 164 cm (64.56 inches).









Cod.	Composition	Height	Weight	Colour
CYPR-DEN	6% cypress 94% recycled cotton	164 cm	125 gsm	Indigo

#### Nettle denim

Nettle is an interesting ecological alternative to other natural fibers such as hemp, linen and cotton.

Stinging nettle is a perennial plant that thrives in highly nitrogenous and fertilized soils, making it a viable solution to the existing agricultural problems of over-production, over-fertilization and monocultures. Its fibers are a natural thermal insulators, thanks to their hollowed structure.

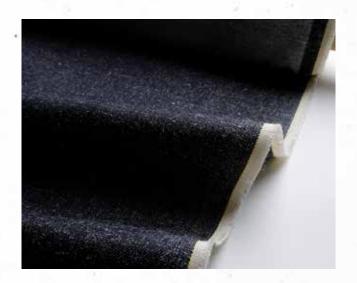
The plant is also resistant to diseases and pests, so they do not need any chemical treatments. The Nettle's denim is made out of nettle fibres and recycled cotton yarns.

The cotton used in this denim is ECOTEC®, which has a fully traceable and made in Italy production cycle, and it uses 100% pre- dyed leftovers from the textile industries contributing to reduce the impact of the cotton supply chain on the environment and to reduce the CO2 emissions. Once transformed into yarns, it can be easily used for the production of top-quality products with highly sustainable value.

Composition: 24% nettle, 61% recycled cotton and 15% modal, a cellulose-derived natural fiber.







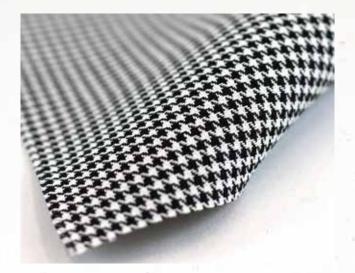


Cod.	Composition	Height	Weight	Colour
NETT-DEN	24% nettle 61% recycled cotton 15% modal	172 cm	340 gsm	Indigo

# Paper fabric

Known as "Shosenshi", paper yarn has older history than hemp or cotton in Japan. Aside from having the lightness of the paper, paper yarn has many characteristics as such as being durable, has no fluff, high absorption potential, quick-drying, and has high dyeaffinity. Abaca is applied as base material of the paper used to make paper Yarn. Not only having outstanding toughness, it is also very light, soft to the touch, and does not have fluff. Paper used as base material must be strong, thin, and homogenous since the yarn is made by twisting paper, which is sliced down to 1mm in width. Compared to wood pulp, abaca has longer fiber, enabling to make stronger paper. Abaca, has fast growth and development, high carbon dioxide absorption potential, non toxic when incinerated, and biodegradable. Abaca is a dream come true eco-friendly material.

- As strong as cotton
- Very breathable
- Water resistant
- Insulative (contains lots of air)
- Hygroscopic
- Feels cold when you touch
- Easy to dye









Cod.	Composition	Height	Weight	Colour
PPFB-310-01	100% textile paper	152 cm	95 gsm	lvory (many available)



# Weganool fleece fabric

It is a 100% sustainable, zero-waste woven satin fabric and it is a 100% plant-based and chemical-free, cruelty-free wool alternative from Calotropis plant and regenerated organic cotton fibers (30% Calotropis fibers 70% organic cotton). Calotropis perennial weed grows year after year without plowing, planting, or watering. It flourishes without human intervention on drylands, where no other plants can grow. It is naturally antifungal and anti-microbial and is a pioneer plant whose main purpose is to bring the forest canopy back. Even after harvesting the stems, the shoots will double in 6 months. It will easily cover the dry land - adding essential nutrients, purifying, and regenerating the soil - preparing for a future forest. Another great function of this plant is to anchor the soil to prevent erosion. It does not depend on any natural resources except sunlight! No pesticides are used in growing the crops and the production of one kg of WEGANOOL™ saves 27.000 litres of clean drinking water, compared to regular 100% cotton yarn. The calotropis and cotton used are both rain-fed. The water used for fiber processing is re-used from natural dyes.









Cod.	Composition	Height	Weight	Colour
WGNL-FL	30% Calotropis fibers 70% organic cotton	89-165 cm	190 gsm	***Ivory

# Weganool woven fabric

It is a 100% sustainable, zero-waste woven satin fabric and it is a 100% plant-based and chemical-free, cruelty-free wool alternative from Calotropis plant and regenerated organic cotton fibers (30% Calotropis fibers 70% organic cotton). Calotropis perennial weed grows year after year without plowing, planting, or watering. It flourishes without human intervention on drylands, where no other plants can grow. It is naturally antifungal and anti-microbial and is a pioneer plant whose main purpose is to bring the forest canopy back. Even after harvesting the stems, the shoots will double in 6 months. It will easily cover the dry land - adding essential nutrients, purifying, and regenerating the soil - preparing for a future forest. Another great function of this plant is to anchor the soil to prevent erosion. It does not depend on any natural resources except sunlight! No pesticides are used in growing the crops and the production of one kg of WEGANOOL $^{\text{\tiny TM}}$ saves 27.000 litres of clean drinking water, compared to regular 100% cotton yarn. The calotropis and cotton used are both rain-fed. The water used for fiber processing is re-used from natural dyes.









Cod.	Composition	Height	Weight	Colour
WGNL-WV	30% Calotropis fibers 70% organic cotton	152 cm	95 gsm	***lvory

### BioGreen

Biogreen Padding is a unique and highlyefficiency padding polymer made with no oil or animal-based products, using only natural and renewable resources, which are partly obtained from recycled vegetable materials and partly from organic renewable sources. Carded padding has outstanding properties, especially in terms of heat resistance, making it a better option than any other polyester, especially in terms of fabric welding. Thanks to a specific checkering technique, this material has a filling power (certified between 750 and 770 F.P. index) similar to that of goose down, moreover, it contains hollowed fibers, which have a significantly superior insulating power than oil-derived/artificial polyesters and it is made.

A part of the manufacturing process was specifically designed to avoid bacteria proliferation, furthermore, this product is certified Oeko tex standard 100 REACh.

The fiber is carded, which makes it ideal for bending items (pillows, duvets, quilts, etc.), padding in garments (quilt and down jackets, etc.), leisure and sports clothing (sleeping bags, trousers and jackets for skiing, etc.) and many more.







Cod.	Composition	Weight	Colour
BGPP250	100% natural biopolymer	250 gr	White



# Kapok

Kapok is harvested from the seeds pods of the Ceiba Pentandra trees, a tree that grows in Asia, in tropical and semi-tropical areas below 300 meters on the sea level on porous soil of volcanic origin. The kapok is deciduous, dropping its foliage after seasonal rainy periods. Flowering occurs when the tree is leafless, thereby improving access for the bats that feed on the sugar-laden nectar of kapok blossoms. In doing so, the bats unwittingly pollinate the tree's flowers. When the tree does bloom it produce several hundred 15 cm (6 in) pods containing seeds surrounded by a fluffy, yellowish fibre that is a mix of lignin and cellulose. Kapok fiber is light, very buoyant, resilient, resistant to water and has a silky touch.

The lightness of the fibers (eight times lighter than cotton) and the hollowed structure have made Kapok the perfect materials for safety gears as floating life jackets. Kapok can support up to 30 times its weight and over 30 days it loses only 10% of the ability to float. Kapok is a very good insulator, it is odourless, non-toxic and non-allergenic. The best applications for Kapok are in paddings, both as non-woven waddings or loose fibres.







Cod.	Composition	Weight	Colour
KPFB-250	100% kapok pod fibers	250 gr	Natural



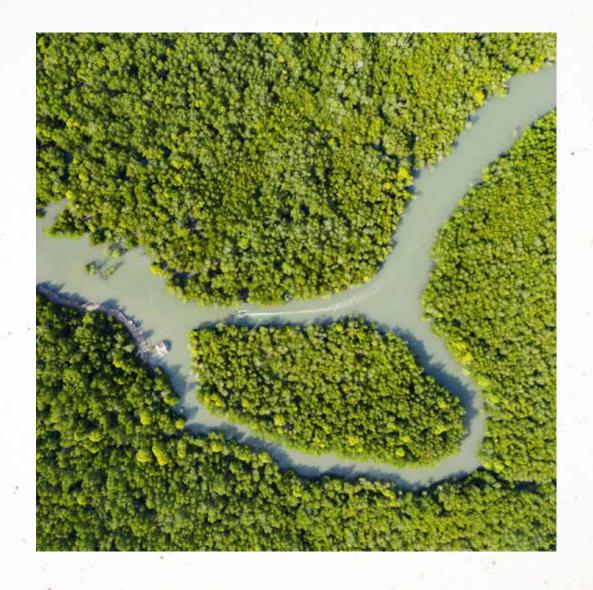
# nVeg

The nVeg Padding is a unique blend of two completely cellulose-based fibres that mix together naturally and result in a powerful and explosive synergy where the properties and strengths of each are enhanced. It is composed by 60% of Tencel, an environmentally-friendly material, created from sustainably-sourced eucalyptus trees, using eucalyptus wood pulp. Like cotton, Tencel is made from plant materials; however, unlike cotton, Tencel requires less water and uses less energy. Also, since Tencel is a naturally-derived fibre, it's biodegradable. The remaining 40% of the nVeg Padding blend is made of Kapok, a hollow cellulose fibre, with a very silky hand and an extreme lightness. Kapok's fibre is harvested from the seed pods of the Ceiba trees, which grow on very porous and volcanic soil, located in tropical and semi-tropical areas of Asia, below 300 meters on the sea level. Thanks to its lightness (eight times lighter than cotton) and hollow structure, Kapok is ideal for safety gear, such as floating life jackets. The hollowness of its fibres makes Kapok also a great insulator, furthermore, this material is odourless, non-toxic and non-allergenic.



Cod.	Composition	Weight	Colour
NVEG6040	60% Tencel - 40% Kapok	250 gr.	Natural





www.lifematerials.eu store@lifematerials.eu

