

# VILOFT®



a natural source of inspiration



## Environmentally friendly fibres

VILOFT® is 100% biodegradable and certified to the Oeko-Tex Standard 100 for the most sensitive product area, use in baby applications. All our fibres deliver consistently high quality at all levels of the production chain. Our products are produced on the basis of sustainable raw materials: they are produced from cellulose, the most common material found in nature, and the main constituent of all plant life.

Years ago, the company paved the way for environmentally-friendly management of its production processes. For us, maintaining the high standards set and optimizing our facilities and processes further, in line with sustainability criteria, will continue to be an area of focus in the future.

To achieve sustained success, we leave nothing to chance. We have set a clear course for the management of our company, making use of differentiated management systems. Since 1996 we have been certified according to DIN ISO 9001:2000 Quality Management - management and employees alike are committed to fulfilling the requirements thereof.



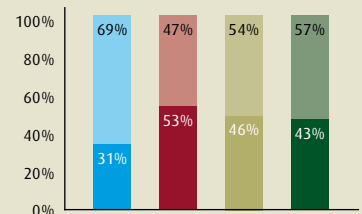
# VILOFT®

## a natural source of inspiration

VILOFT® is a high-tech fibre of 100% natural origin which endows garments with specific aesthetic properties and functions. The special fibre cross-section produces air pockets in fabrics, creating a pleasant micro-climate next to the skin.



Incorporation of air in VILOFT® yarns

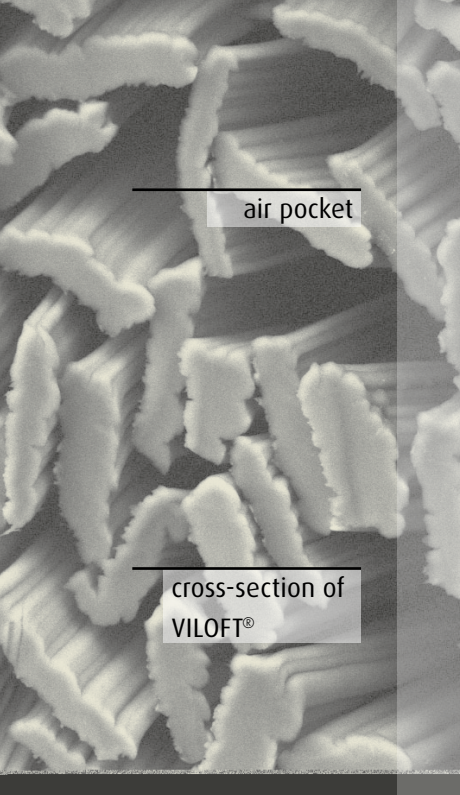


- The special cross-section of VILOFT® fibres permits the formation of considerably more air pockets in the yarn, thus allowing the production of fabrics with an airy, light feel.

## Feeling good

VILOFT® is a speciality fibre whose inherent technical properties and characteristics create fabrics which can insulate against the cold, whilst retaining warmth. At the same time, VILOFT® provides all textiles with a wonderful soft handle. In addition to its thermal insulation properties, VILOFT® also shows a strong capillary action: moisture is transported away from the skin and released to the outside through the fabric, leaving the wearer's skin feeling dry and comfortable. This special combination of thermal insulation, breathability and softness makes VILOFT® an ideal choice for wellness and functional underwear with excellent wearer comfort.

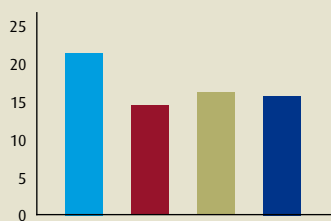
VILOFT® is completely natural. All VILOFT® fibres are of 100% natural origin and are made entirely from eucalyptus wood pulp from managed plantations. VILOFT® permits a wide range of properties to be achieved in fabric form, and is suited for a wide range of applications from "feel good" underwear to fashionable clothing!



## Tried and tested

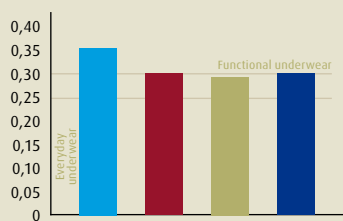
Our customers have worked successfully with VILOFT® for many years. Besides a high level of customer satisfaction, recent scientific analysis by the renowned Hohenstein Institutes has proven the outstanding quality and functionality of VILOFT® speciality fibres. The Hohenstein Institutes are one of the leading textile institutes world-wide and have successfully established a number of standardized test methods for thermal insulation, moisture transport and wearer comfort. In a series of tests the performance of VILOFT® fabrics was compared to fabrics made of other cellulosic fibres.

Thermal insulation  $10^3 \text{ m}^2 \text{ K/W}$



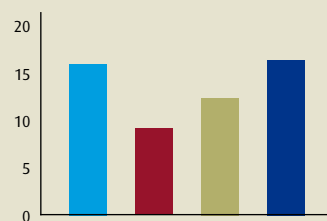
- In the tests carried out, textiles made of 100% VILOFT® showed the highest thermal insulation value.
- The flat fibre cross-section of VILOFT® produces numerous air pockets which insulate against cold.

Water vapour permeability index  $i_{\text{mt}}$



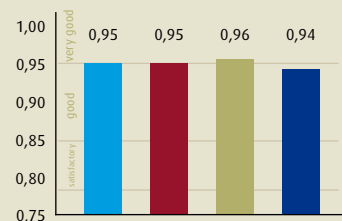
- VILOFT® creates outstanding wearer comfort by combining excellent thermal insulation and rapid moisture transport. – VILOFT® exceeds the threshold for functional underwear.

Water vapour uptake  $F_1 \text{ g} / \text{m}^2$



- One of the main advantages of VILOFT® is its ability to absorb moisture from the skin – this creates a comfortable dry feeling for the wearer and at the same time inhibits the growth of bacteria in a natural way.

Perspiration buffering index



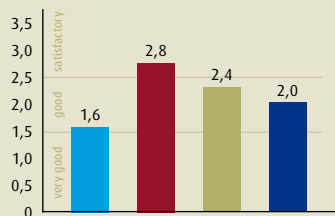
- Each day we are faced with stressful situations or physically demanding tasks. This leads to an increased production of sweat. VILOFT® achieves outstanding perspiration buffering properties.

## Added value with VILOFT®

- The special fibre cross-section creates air pockets for excellent thermal insulation, quick moisture transport and breathability, which creates a comfortable micro climate next to the skin
- Yarns made of VILOFT® contain up to 70% air and fabrics using VILOFT® feel soft and light as a feather on the skin
- VILOFT® fibres are naturally soft and guarantee outstanding wearer comfort
- VILOFT® transports moisture away from the skin and inhibits the growth of bacteria in a natural way
- Easy care: textiles made of VILOFT® are machine-washable
- VILOFT® fibres are of 100% natural origin and are manufactured from renewable materials - they are also 100% biodegradable and so complete the natural cycle



#### Thermophysiological wearer comfort



- Thermophysiological wearer comfort combines the results (water vapour permeability index, perspiration transport and perspiration buffering) and rates the overall performance with grades 1 (very good) to 6 (fail).

- 100% VILOFT®
- 100% CO
- 50% VILOFT®/50% CO
- 100% Micro Modal
- 50% VILOFT®/50% Micro Modal

## Light as a feather for excellent wearer comfort

VILOFT® allows the production of very light and soft garments with next-to-skin comfort. Tests have shown that textiles made of VILOFT® contain up to 70% air - they are lighter and breezier than other fabrics and have a body-skimming fluidity. Well-being and wearer comfort create “feel-good” garments which are worn frequently - VILOFT® is a natural cellulosic fibre free of harmful substances and makes an excellent choice for frequently worn clothes.

## Successful partners

All VILOFT® garments create outstanding wearer comfort. Fabric construction and blend ratio can be used to achieve various special fabric properties with VILOFT®, such as quick moisture transport for sports and active wear, thermal insulation for underwear which is not bulky or light, airy fabrics for soft, flowing fashionwear.

Our VILOFT® fibres can be used in 100% form or in blends with many other fibres. Tell us about your special application. We will be happy to support you with our technical recommendations.

In addition, we provide support for VILOFT® with a comprehensive branding programme. VILOFT® is an established brand which is well-known by garment manufacturers, retailers and consumers alike and has become synonymous with premium quality.

# VILOFT®

We support our VILOFT® customers throughout the textile chain with our comprehensive marketing programme. Please visit our webpages for further information: [www.viloft.com](http://www.viloft.com)

#### We offer:

- VILOFT® tags
- retail promotion
- PR work
- merchandising
- technical support

**Kelheim Fibres GmbH**  
Regensburger Straße 109  
93309 Kelheim/Germany

Tel: +49 (0) 9441 99368  
Fax: +49 (0) 9441 99568  
[VILOFT@kelheim-fibres.com](mailto:VILOFT@kelheim-fibres.com)  
[www.VILOFT.com](http://www.VILOFT.com)

