

Climatex  
The feel-good fabric.



*Climatex produces climatizing, sustainable textiles. The company's innovative technology revolutionizes seating comfort in buses, aircraft, cruise ships, trucks and automobiles.*

Climatex upholstery fabrics have impressive and unusual properties:

They equalize hot and cold areas.

They regulate moisture.

They save energy for heating and cooling.

They are certified to the highest sustainability standards.

Welcome to the textile future!



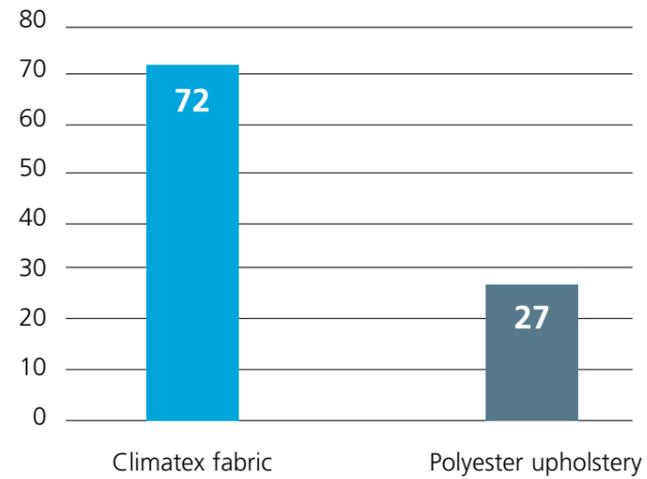
## Temperature equalization

The multi-dimensional structure of Climatex upholstery fabrics creates a microstructure that quickly balances the temperature in hot and cold areas. This effect can be felt both on the seat itself as well as in the surrounding area. The temperature equalization enhances passenger comfort, lowers the pulse rate, heightens concentration and boosts alertness.

Climatex upholstery fabrics are designed with selected dyes that transmit heat rays. They remain cool even when exposed to sunlight and maintain a pleasant temperature in the vehicle, ensuring maximum seating comfort.

**Problem:**  
Heat build-up on the seat when passenger is seated

**Climatex solution:**  
Heat transport and temperature equalization by means of a special microstructure.

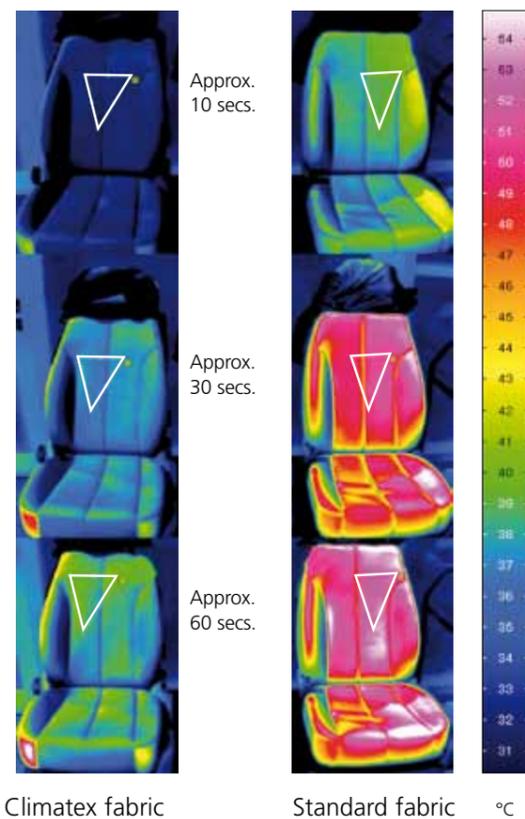


Thermal transfer coefficient in W / (m² · K)

Results of comparative heat transmission tests on standard upholstery made of polyester and Climatex upholstery fabric. The efficient thermal transport prevents the build-up of heat and also dissipates the warmth of the passenger's body, effectively preventing perspiration.

**Problem:**  
Seat and upholstery fabric heated by exposure to the sun

**Climatex solution:**  
Transmission of the heat rays by means of the structure and color



Test results for the effect of upholstery fabrics from the laboratory of a leading automobile manufacturer comparing sun exposure time and the temperature profile. Standard upholstery fabrics convert sun rays to heat and the seats become hot. Climatex upholstery fabrics equalize the temperature.



## Moisture reduction

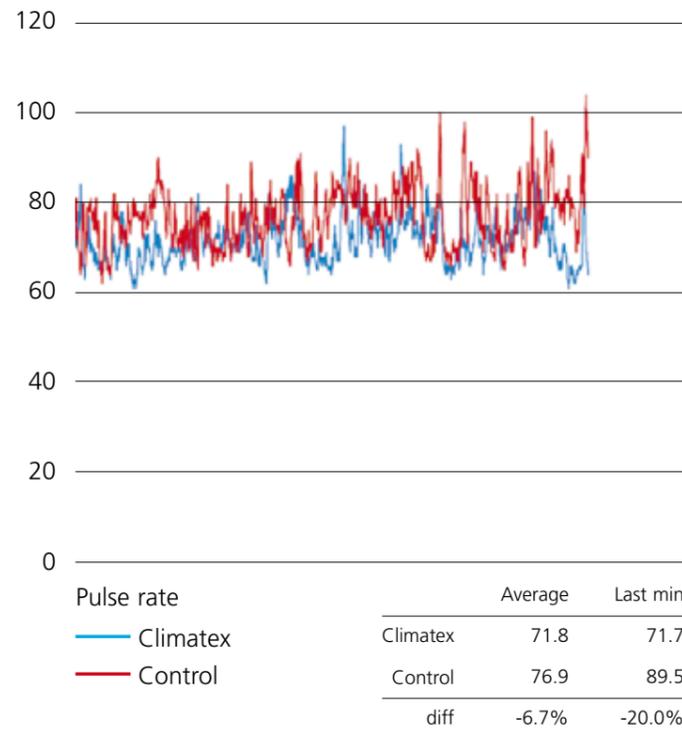
Natural and synthetic fibers are woven in a special process that ensures effective moisture transport. The capillaries quickly absorb the moisture and transport it into the fabric where it is evenly distributed. The surface remains dry. Climatex upholstery fabrics regulate moisture levels.

**Problem:**

Lack of concentration and high pulse rate caused by high interior temperatures

**Climatex solution:**

Stabilization of the heart rate by means of efficient thermal equalization



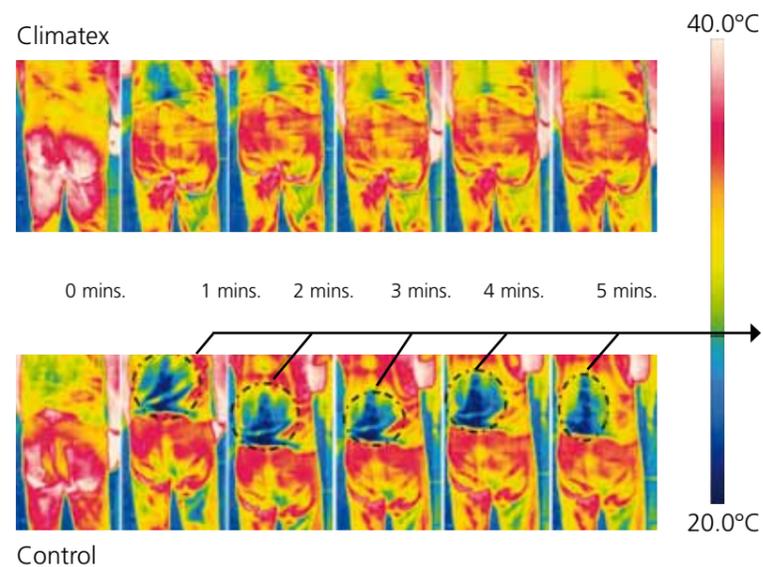
The effect of heat on the heart rate was examined in comparative tests. With standard upholstery fabrics the heart rate increases by 20 per cent. The efficient thermal equalization of Climatex upholstery fabrics stabilizes the heart rate, boosting concentration, stamina and performance.

**Problem:**

Perspiration makes clothing damp and cold

**Climatex solution:**

Absorption of moisture and a dry surface



Thermogram on standing up after one hour of sitting

Comparison of moisture management  
Thermograms of passengers after sitting for one hour. The standard upholstery fabric creates a large cold and damp area on the passenger's back. Climatex upholstery fabrics carry any occurring moisture away, keeping the passenger dry.





## Energy savings

Fabrics with heating and cooling effects equalize any temperature fluctuations in the interior. They ensure a pleasant level of comfort without consuming energy. Climatex upholstery fabrics can lower energy consumption for heating and cooling, resulting in considerable savings.



## Protective effect

Climatex fabrics satisfy the requirements of various international directives and fire protection standards for use in buses, trains, aircraft and cars. The textiles are flame retardant for both the upholstery and the seat.





## Anti-slip properties

The three-dimensional structure of Climatex upholstery fabrics ensures a particularly firm grip and therefore maximum stability and safety for passengers.



## Long service life

The strength and durability of the fabrics guarantee a long service life. Climatex upholstery fabrics are easy to care for and clean. They satisfy the highest demands regarding routine use and hygiene. They are also 30 per cent lighter than comparable fabrics.

# Sustainability

Climatex upholstery fabrics can be separated into their individual fractions and completely reused. Their sustainability is certified to Oeko-Tex and Cradle to Cradle standards. Natural fibers are composted and synthetic fibers are fully recycled. With the intelligent combination of renewable and regenerated raw materials, Climatex upholstery fabrics safeguard their own future.



# Authentic design

The special structure and plasticity of the Climatex upholstery fabrics lend them their own unique character. Individual patterns and the special color culture make each collection a special design highlight.



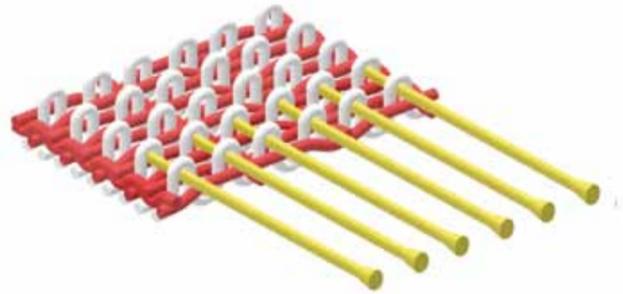
Biological cycle

Technical cycle

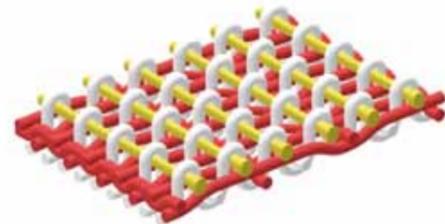


## Textile Lock

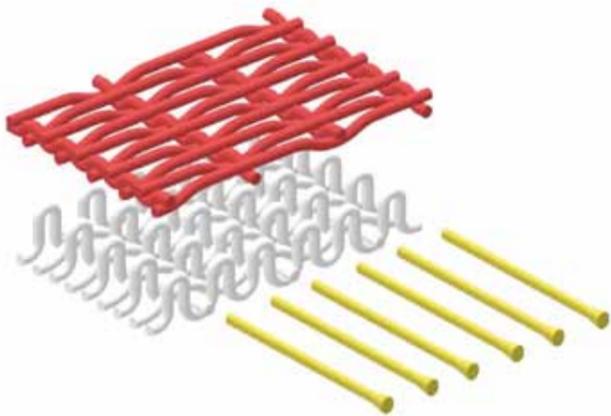
Innovative technology:  
combination of  
different materials



Unique effects:  
Contact points and spaces



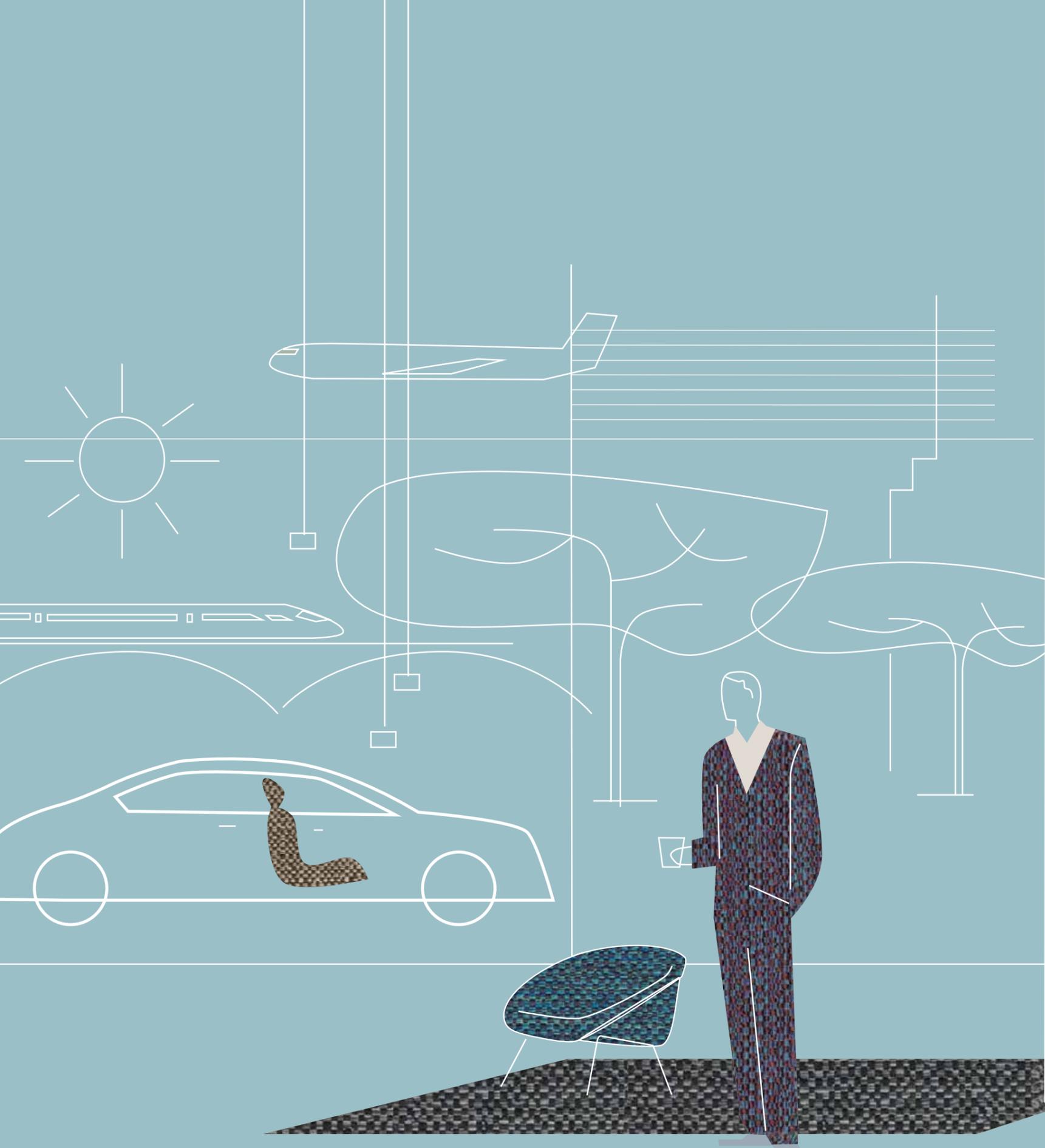
Future raw materials:  
Homogenous separation  
of the individual fractions  
for recycling



## ClimateX Technology

The special Textile Lock combines natural and synthetic fibres to create a fabric power pack. The unique effects are created by the combination of contact points and spaces between the various materials. This special weave can be taken apart by means of a globally established industrial process, ensuring homogenous separation of the individual materials.

*The unusual properties of Climatex make this technology suitable for intelligent applications in all situations where the microclimate affects personal comfort and well-being.*



## The Climatex world

- Automotive
- Transportation
- Interiors
- Health care
- Clothing
- Shoes
- and more



Gessner is a legend of contemporary textile culture. This Swiss genius has been inspiring the textile industry for almost 175 years with its creative innovations. Originally founded as a silk weaving mill, the company won international acclaim and started exporting the European textile culture to countries around the world, taking the US market by storm and revitalizing the Asian fabric sector. In the sixties Gessner created luxury fabrics for the famous Parisian haute-couture houses.

Climatex is the innovation of this Swiss powerhouse. The brand stands for climatizing, recyclable products. These have impressive properties and conserve resources. The employed materials can be homogeneously separated and recycled – a pioneering achievement in the industry. The brand is hallmarked by its value orientation and an approach that is fully geared to the future. Climatex users can enjoy a clear conscience.

Climatex fabrics transform a textile environment into an oasis of comfort and well-being. The patented technology revolutionizes the weaving process. It produces recyclable fabrics with outstanding properties. They equalize temperatures, regulate moisture and are very durable. Climatex fabrics create an atmosphere of comfort and well-being.

-  German Design Award
-  iF design award
-  Good Design Award
-  MATERIALICA Design + Technology Award
-  AIT Innovationspreis
-  Green Good Design Award
-  Legacy Leader Honoree
-  CONFIDENCE IN TEXTILES
-  Circulor Silver

*As clever as skin.  
Appealing and healthy.*

*Equalizes temperatures,  
regulates moisture,  
lowers the pulse rate,  
saves energy and  
can be completely recycled.*

*Climatex  
The feel-good fabric.*



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