



# Comfort

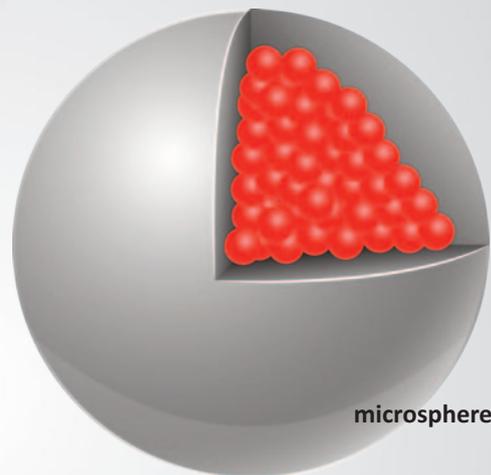
The next generation in phase change material



**Utilising the latest in 'phase changing' technology, So<sup>®</sup> Comfort offers a performance leading 'functional' fibre which, when used in fabrics, helps to provide the user with a consistent balance of temperature in-line with the body's natural 'comfort zone'.**

Encapsulated within the fibre are 'microspheres' which absorb and release excess heat, keeping the microclimate temperature between the fabric and the skin within a comfortable range.

By responding to the change of temperature in either direction, the user is provided with a consistent regulated temperature, thus avoiding the discomfort which arises from hot and cold extremes.



## Why Choose So<sup>®</sup> Comfort?

When used within fabrics, So<sup>®</sup> Comfort helps to keep the user comfortable by preventing fluctuations in body temperature and can be used to keep wearers cool within hot or physical environments, whilst providing a warming effect when the temperature drops.

When used for bedding it can aid sleep by helping to regulate skin temperature throughout the night.

The fibre can be blended with viscose, acrylic & polyester, as well as natural fibres and even modacrylic for additional benefits and performance.

## How it Works

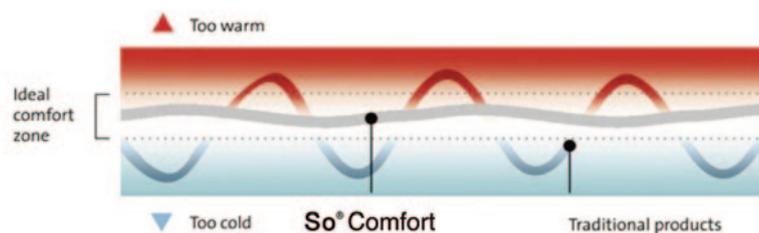
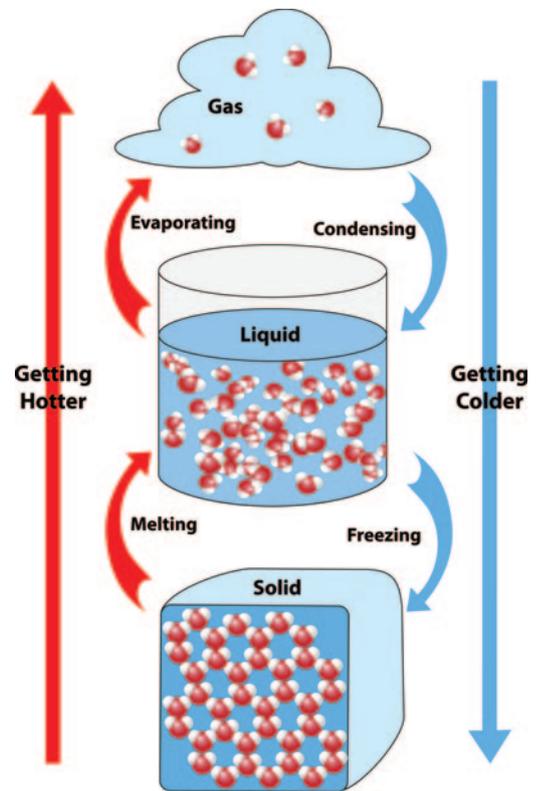
As the external temperature rises, the encapsulated PCM moves from a solid to a liquid which, in turn, absorbs excess heat and provides the wearer with a 'cooling effect'. The cooling effect starts when the ambient temperature reaches 25°C and peaks at 32°C.

In a cooler environment, where the temperature drops below the 'transition temperature', the liquid PCM changes back to a solid state, generating heat and creating a temporary warming effect. The crystallisation starts at 24°C as with a peak temperature of 14°C.

The result is a balance of temperature which is regulated to the skin's natural 'comfort zone'.

With a diameter of less than 3 microns, these microspheres contain a wax-like substance encased in a strong durable outside shell. This advanced coating reduces the likelihood of splitting and in turn offers enhanced performance and longevity in the fabric. At 14 KJ/kg, So<sup>®</sup> Comfort offers more heat exchange than the leading brand, as well as being both REACH compliant and OEKO-TEX certified.

For the most technologically advanced phase change material on the market, look no further than So<sup>®</sup> Comfort - the next generation in phase change material.



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