

**HEIQ**<sup>®</sup>  
**GLIDE**

**Move without limits –  
effortlessly**

**Reduced friction  
for free movement**

- Durable friction reduction
- Reduction of the coefficient of friction (COF) by smoothing the fabric's surface
- Complies with EU REACH, US EPA, JP MITI, ZDHC and most RSL regulations
- Easy dress and undress
- Confers a soft handle
- Improved moisture management properties
- Increased resilience and durability
- Applicable to any fiber type: natural, synthetic and blends

**What does it do?**

HeiQ Glide is a durable low-friction textile technology which provides the wearer with improved comfort and ease of movement. The innovative HeiQ Glide technology significantly reduces the level of friction between garments and the skin.

**What is it for?**

HeiQ Glide is ideal for sportswear and active wear as well as for any skin contact garments including underwear – especially shapewear – and hosiery.

**SWISS  
TECH  
INSIDE**

bluesign<sup>®</sup>

SYSTEM  
PARTNER

**OEKO-TEX<sup>®</sup>**  
CONFIDENCE IN TEXTILES

# HeiQ Glide

## Freedom to move

### Is friction in garments a problem?

Friction is an issue. The constant movement between clothing and skin creates overheating, which is one of the key factors that lowers the perceived comfort of textiles. Friction with skin and overheating can cause skin irritation, chafing, abrasion and injuries like blisters and sores. The fabric surface structure and skin moisture have a strong impact on friction. E.g. the level of friction between skin and wet fabric is more than two times higher than the value for skin rubbed on a dry fabric.\*

\* LC.Gerhardt et al. "Influence of epidermal hydration on the friction of human skin against textiles" Journal of The Royal Society Interface 2008, 5 (28), 1317-1328

### The unique way of tackling friction

HeiQ Glide provides a durable friction reduction film on the textile surface and is truly an all-in-one solution. In addition to minimizing friction, improved smoothness and softening properties are provided, as well as beneficial moisture management properties.

### Free-movement zone

Just as nature transforms a rough, abrasive rock into a smooth pebble, so the unique textile technology HeiQ Glide creates a smoother and easier-to-move fabric surface. HeiQ Glide's innovative technology complements the fabric composition and construction to create

a free-movement buffer zone between fabric and skin. This gives improved skin contact comfort for clothing.

In-house HeiQ tests as well as independent tests by EMPA (Swiss Federal Laboratories for Materials Science and Technology) have demonstrated that the HeiQ Glide treatment consistently reduces the friction properties of textiles on skin.

### HeiQ offers the following friction test methods for your textiles:

- Friction coefficient testing (ASTM D 1894)
- EMPA friction testing

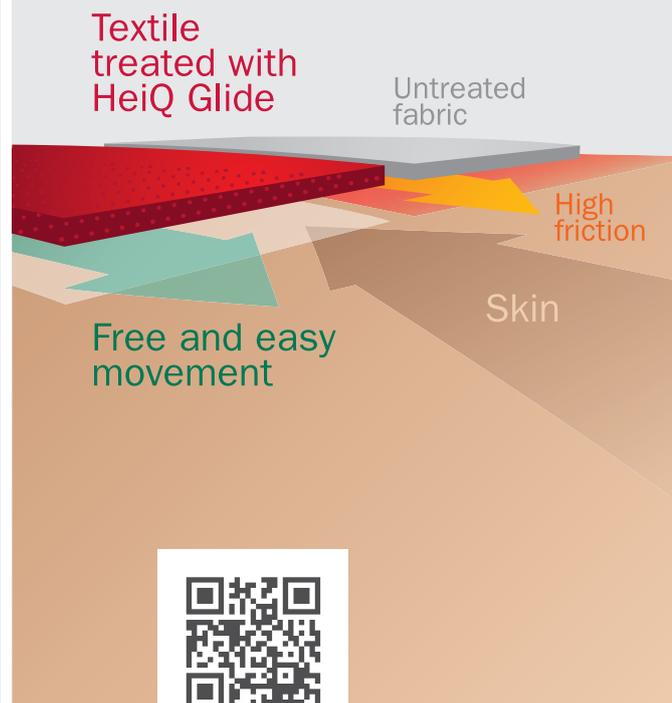
### Skin friction and the coefficient of friction (COF)

Our skin is continually sensing comfort. Throughout each day the human skin interacts constantly with textiles and the environment. With clothing, friction forces are a key property of wearer comfort.

A detailed understanding of skin-textile friction can be used by product developers to enhance the functionality or usability of fabrics, to decrease skin injuries caused by the use of next-to-skin garments and to increase the perceived quality and touch properties of products.\*

The coefficient of friction (COF) is a key measure of friction potential. COF is the ratio of "rubbing" (frictional) force  $F$  to the "contact" (normal) force  $N$ . Higher COF indicates higher friction and a greater risk of skin discomfort from rubbing. Several factors impact the COF: fiber and yarn properties, fabric structure and composition, moisture content, skin conditions and fabric surface treatment.

\* "Skin friction: A novel approach to measuring in vivo human skin", Noor Veijgen, 2013



Find out more!