The only GORE-TEX safety footwear (S3) with 360° breathability

Safety footwear frequently has to be worn all day long, in all weather conditions, and for all levels of activity. So, what wearers are looking for is a high degree of breathability to ensure that any excess heat and moisture produced inside the shoe can escape as quickly as possible. The GORE-TEX SURROUND® product technology – a footwear technology that is already well established in the mountain sports and casual sectors – means that S3 safety shoes can now feature 360° climate comfort.

360° climate comfort for your feet

The innovative GORE-TEX SURROUND® product technology is the first of its kind to enable safety footwear to combine all-around breathability with durable waterproofness and compliance with all the safety requirements of EN ISO 20345:2011. The technology features special GORE-TEX laminates that are integrated into both the upper and the sole of the shoe, completely surrounding the foot. The all-around breathable and waterproof upper construction is then attached to a special breathable sole structure. Moisture and warmth produced by the foot are not only conducted out of the shoe via the upper, but also downwards – through the special GORE-TEX laminate in the sole area – into a ventilation grid. From there they can escape through openings positioned at the side of the sole.

Your feet stay dry and comfortable even at higher temperatures or during physically strenuous activities.

Key features and benefits

- 360° breathability for the highest level of climate comfort - even in warm weather and during periods of high activity
- Durably waterproof[1] - even after coming into contact with defined chemicals[2] (ISO 811)
- Resistant to penetration of commonly occurring chemicals[2] in accordance with ISO 13994/ASTM F 903, method C1
- Tested for safety and certified in accordance with EN ISO 20345:2011 for S3 safety footwear
- Long product life thanks to Gore's quality assurance standards

GORE-TEX SURROUND® Safety Footwear (S3)

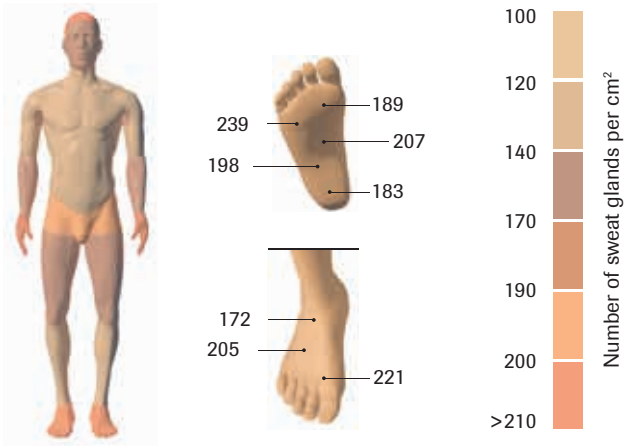
All-around breathable and durably waterproof

Breathable all-around

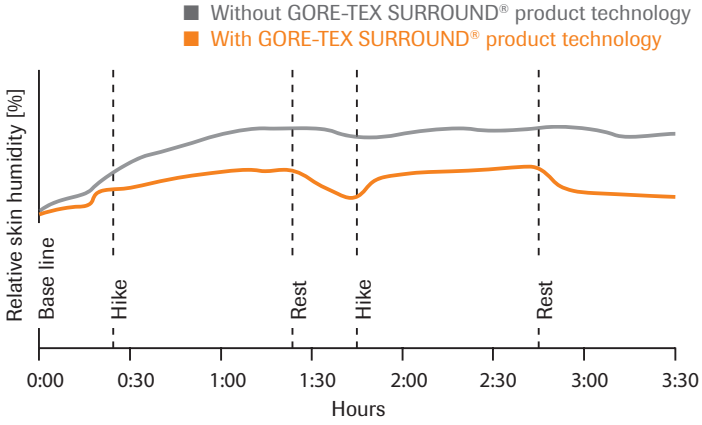
Safety footwear is typically not breathable underneath the foot. The patented structure of the SURROUND® sole, including the use of a laminate underneath the foot, creates a larger area through which moisture can be moved away from the foot, increasing the overall breathability of the safety shoe. Sweat produced inside the shoe can escape faster than ever before. So your feet feel dry and comfortable.

GORE-TEX safety footwear with SURROUND® product technology offers up to 25% more breathability than comparable GORE-TEX Extended Comfort safety footwear.

Almost 1/3 of the sweat glands of the foot are on the sole



Climate chamber tests reveal a significant reduction in relative skin humidity



Source: "Hiking Boots Study" Josef Stefan Institute, Biomed d.o.o. 02.2013

Waterproof all-around

The durable waterproofness of GORE-TEX safety footwear with SURROUND® product technology is ensured by special GORE-TEX lining laminates that are integrated into the upper and the sole of the shoe, completely surrounding the foot on all sides. The sole is then attached to the upper either using an injection moulded or cemented construction.

GORE-TEX safety footwear with SURROUND® product technology is durably waterproof[1]. At the same time it offers protection against penetration of commonly occurring chemicals[2] in accordance with ISO 13994/ASTM F 903, method C1.

Visible innovation

GORE-TEX safety footwear (S3) is available with side sole openings and therefore with the newest of the SURROUND® product technology constructions. The penetration resistant sole, which is a requirement of S3 certified safety footwear, is positioned underneath the layer of the sole with the side openings. Thanks to the unique and innovative sole structure you can actually see the ventilation system at work, producing safety footwear that offers the best combination of waterproofness and true 360° breathability.

1 According to Gore's own standards, GORE-TEX SURROUND® safety footwear has to withstand at least 100,000 flex movements, which means 20 times more than defined in EN ISO 20344:2011.
2 Commonly occurring chemicals include AFFF fire-fighting foam (3%), sulphuric acid H_2SO_4(37%), diesel and caustic soda NaOH (30%)

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