



Factsheet Moisture-tech® 360°

Sympatex Technologies GmbH:

High-performance shoe technology for a perfect shoe microclimate

Optimal moisture removal, less perspiration water and excellent heat insulation – Sympatex Technologies has presented Moisture-tech® 360° for the first time at the OutDoor Trade Fair 2013: An innovative insole can be combined with the Moisture-tech® lining laminates to offer a perfect all-round solution for comfortable dry feet in any weather. Outstanding Empa* test values have confirmed the high performance of Moisture-tech® 360°.

The new technology works as follows: In addition to the accelerated removal of moisture from the upper by the Moisture-tech® lining laminate, the insole produces a 360° effect. The sole removes moisture from the foot or the sock and stores it in an interlining for a short time. The natural rolling movement of the foot creates a ventilation or pumping effect in the channel structure of the insole, which evenly transports the moisture in the form of water vapour to the upper that is equipped with Moisture-tech® lining laminates. Therefore, moisture can be transported extensively through the whole upper to the outside, while using a normal insole means that moisture is not transported away from the foot, thus creating a moisture accumulation in the comfort-relevant area (sock).

Best performance values after shoe comfort test

Empa* – the Swiss Federal Laboratories for Materials Science and Technology – has confirmed the improved moisture removal by using Moisture-tech® 360° after a shoe comfort test with the Empa* foot model. For the measurement of perspiration water, protective working boots were tested in static and moving conditions, because they have to meet very high performance requirements. The results: The evaporated amount of water in the boot with the Moisture-tech® 360° insole was 42% higher than in the case of the Moisture-tech laminate with a normal insole. The perspiration water in the sock was reduced by another 31% using Moisture-tech® 360° in comparison with the Moisture-tech® laminate and a standard insole.

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Conclusion: In July 2012, a shoe comfort test** by Empa had already confirmed the superiority of Moisture-tech by Sympatex® in comparison with other technologies by leading competitors. The latest Empa result* has now shown another significant performance improvement of the newly developed Moisture-tech® 360° technology.

Latest test results: *Empa Swiss Federal Laboratories for Materials Science and Technology; Empa test report no. 5214000965

Test result July 2012: ** Empa: Swiss Federal Laboratories for Materials Science and Technology; Empa test report no. 460'650/09.05.12



- ⑤ UPPER
- ④ TEXTILE LAYER
- ③ HYDROPHILIC MEMBRANE
- ② INNOVATIVE INTERMEDIATE LAYER
- ① LINING
- ⑥ UPPER INSOLE
- ⑦ INNOVATIVE INTERMEDIATE LAYER
- ⑧ FOAM WITH VENTILATION DUCTS

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