

Technology

How do they work?



The Inner Layer.

The inner layer of the sock is directly in contact with the skin, and is designed to regulate the climate inside the sock, keeping the wearer comfortable. One factor in comfort is breathability. The rate of moisture transmission through the membrane is driven by the humidity and temperature differences between the internal and external climates. Ideally, the membrane moisture transmission rate will match the rate at which moisture, in the form of perspiration, is being produced by the body. The rate at which moisture is being produced will vary according to the individual and his/ her activity level.

Mid-Light

In the mid light sock the inner sock is composed of cotton and nylon microfibre in a two tier construction. The nylon microfibre lies on the internal surface of the sock, in contact with the skin. The fibres are very fine and naturally hydrophobic (water hating). Consequently they will not hold moisture, but readily wick it by capillary action to the second, more absorbent, cotton tier, keeping the foot dry and comfortable.

The cotton tier, lying between the tactel and membrane acts as a "reservoir", holding moisture until it can be transmitted through the membrane and away.



Mid-Thermal

In the mid thermal sock the inner layer is composed of terry loops of hollow core polyester, a high wicking yarn, and cotton. The loops provide cushioning. High density padding is provided in the critical area of the foot bottom, for greater comfort. The terry loops take moisture from the skin and hold it until it is transmitted through the membrane.

Oversocks

In the oversocks and in the glove, the inner surface of the sock is coolmax. The coolmax fibre has a specially engineered cross section with channels along its length, which encourage moisture to be wicked rapidly along it, away from the skin, keeping the wearer dry.

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Email professor@sealskinz.com if you have a technical question about a product from the SealSkinz range of waterproof socks and gloves