

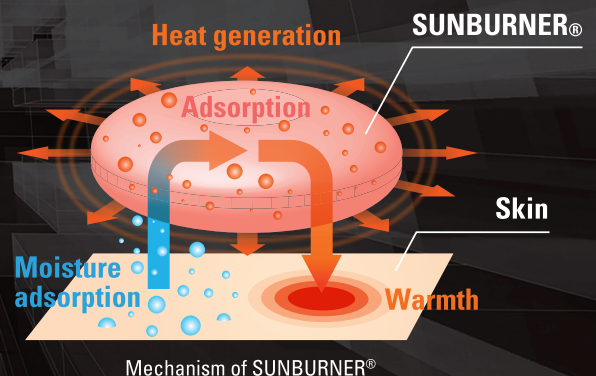


Just wearing it generates heat.

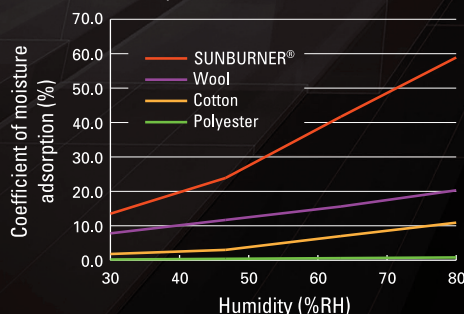
SUNBURNER® is a revolutionary functional textile in which the fibers themselves generate heat when moisture is adsorbed onto their surface. The heat produced by adsorption of fibers and moisture (heat of adsorption) is outstanding, about three times that of wool, and this versatile, multi-functional, comfortable material also features deodorizing, moisture-absorbing, anti-static, and flame-retardant properties.

Heat generation by moisture adsorption

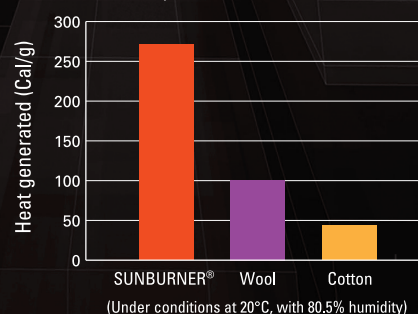
Heat of adsorption is generated when moisture is adsorbed onto a fiber's surface. SUNBURNER® provides many hydrophilic groups thanks to modification of the fiber, and this dramatically improves moisture adsorption capability. As a result, SUNBURNER® generates about three times more heat of adsorption than wool.



■ Coefficient of moisture adsorption at each humidity (20°C)



■ Heat generated due to moisture adsorption



*Heat of adsorption with 100% of each fiber.
*Heat of adsorption values for each fiber are actual measured values from measurement samples. These are not guaranteed heat of adsorption values for each fiber.

Deodorizing effect

Moisture-absorbing properties

Anti-static properties

Flame-retardant properties