

# TX TOUCH EXPERIENCE PLATFORM

C-THERM

*Elastocon*<sup>®</sup>

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*"The device is working perfectly."*

Dr. Christian Heyde  
Intelligence Engine  
**adidas**



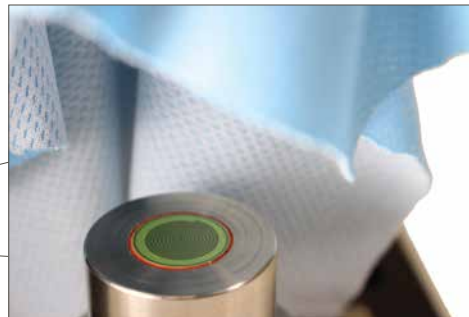
Quantify the warm feel and cool touch of textiles and fabrics  
via ASTM D7984

# CHARACTERIZING COOL TOUCH via ASTM D7984 with C-Therm Tx

Touch is one of our critical senses in perceiving the world – everything from the clothes we wear to the bedding we sleep in. Human skin is very good at detecting differences in a material’s ability to transfer heat, such as the warmth of a fleece sweater compared to the coolness of leather. This material property is known as thermal effusivity, and as a metric, it can be used to quantify a textile’s ability to exchange thermal energy between skin and fabric.

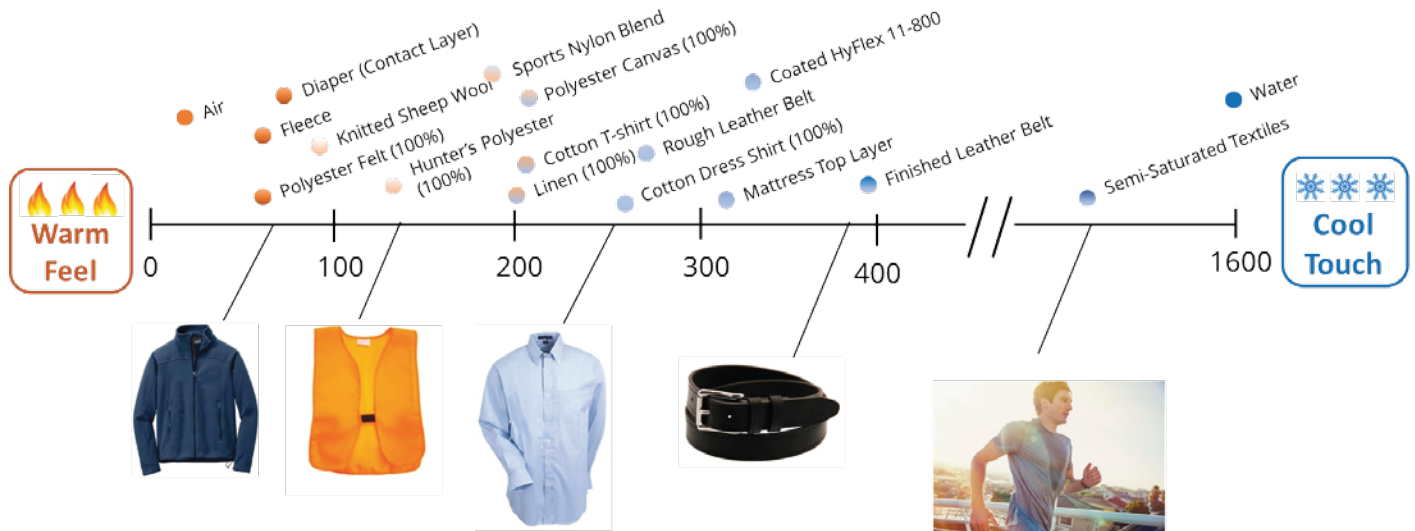
## Tx Touch Experience Platform

C-Therm’s Tx Platform allows for rapid, repeatable and controlled measurement of thermal effusivity and thermal conductivity of materials. Employing the Modified Transient Plane Source Sensor with a compression test apparatus, a limited (~1 °C) heat pulse is emitted over a short test time (~1s) and the voltage drop on the sensor surface is precisely monitored. This allows the thermal properties of the material in contact with the sensor to be determined.



Modified Transient Plane Source Sensor

## The Warm Feel - Cool Touch Product Performance Index



Units of Thermal Effusivity are  $W s^{1/2} / m^2K$