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C-Therm's Technique Adopted as Global Standard for Characterizing Thermal Performance of Textiles

For immediate release
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Fredericton, N.B. – C-Therm worked with industry in forming new standard for characterizing the thermal performance of textiles based on the company's Modified Transient Plane Source (MTPS) technique.

Thermal effusivity, also described as thermal inertia, describes a materials ability to exchange heat with its surroundings or other materials with which it is in contact. Measuring the thermal effusivity of textiles reveals the rate at which fabric absorbs heat when it comes in contact with skin.

ASTM International recently developed the new test method in Subcommittee D13.51 Conditioning, Chemical and Thermal Properties, part of ASTM Committee D13 on Textiles. The standard is titled, ASTM D7984 Test Method for Measurement of Thermal Effusivity of Fabrics Using a Guarded Modified Transient Plane Source (MTPS) Instrument.

Shannon Yawney, a research analyst in product innovation at Mark's, led the effort and explains in an earlier press release from ASTM that "when a textile is tested to the proposed method, a low thermal effusivity rate will indicate that a fabric is slow to absorb heat. To relate that to apparel, a fabric with a low thermal effusivity would feel warmer to the initial touch and would be slower to transfer heat away from the body, keeping you warmer"

Yawney will be joining C-Therm representatives as a guest speaker on a special upcoming webinar explaining further the application of the MTPS method in characterizing textiles and the significance of effusivity in assessing apparel performance. The webinar is scheduled for Thursday, May 5th from 2PM- 3PM Eastern. To register for the free event visit www.ctherm.com or email info@ctherm.com.

About C-Therm Technologies Ltd.

C-Therm Technologies Ltd., located in Fredericton New Brunswick, Canada, provides thermo-physical characterization instrumentation for R&D, production and quality control environments. C-Therm's flagship product – the TCi™ Thermal Conductivity Analyzer - delivers fast, accurate measurement of thermal conductivity and effusivity. The company also offers a powerful product line in dilatometry and process analytical technology. To find out more information about C-Therm Technologies Ltd.'s products and applications, visit their website at www.ctherm.com.

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