

ICS 61.020
CCS Y 75



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 43573-2023

**Methods for the determination of heat dissipation properties of
garments-Sweating manikin method**

服装散热性能的测定方法 出汗暖体假人法

Issued on: December 28, 2023

Implemented on: July 1, 2024

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

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This document is under the jurisdiction of the National Apparel Standardization Technical Committee (SAC/TC219):

This document was drafted by: Soochow University, Shanghai Textile Group Testing Standards Co., Ltd., Beijing Antai Brothers Technology Co., Ltd., Suzhou Ge Ze Garment Co., Ltd., Shenzhen Shifan Garment Co., Ltd., Hebei Benfa Garment Co., Ltd., Hangzhou Zhongfu Science and Technology Innovation Research Institute Co., Ltd., and now Dai Textile Technology Innovation Center (Jianhu Laboratory), Wenzhou Darong Textile Instrument Co., Ltd:

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Method for determination of heat dissipation performance of clothing - sweating body warming dummy method

1 Scope

This document describes a method for testing the thermal performance of thermally functional clothing using a sweating body warming dummy:

This document is applicable to the determination of the heat dissipation performance of heat dissipation functional clothing and its accessories under specified conditions: Separate bulk of tops or bottoms or accessories Thermal performance test and reference for testing the heat dissipation performance of clothing under different ambient temperatures, relative

humidity, wind speed, human posture and movement speed implement:

This document is also applicable to the quantification and comparison of the heat dissipation performance of a complete set of clothing with heat dissipation function under the same test procedures and test conditions:

This document is not suitable for comparison of the thermal performance of a complete set of clothing under different test conditions:

2 Normative reference documents

GB/T 6529

GB/T 8170

GB/T 39605-2020

3 Terms and definitions

The following terms and definitions apply to this document: 3:1 A continuous supply of external cold air or liquid is passed into the duct network or clothing in the garment through a continuous supply of energy-driven power device:

Clothing that circulates in the microenvironment within the body, or cools the material itself to dissipate heat to the human body: 3:2 sweating manikin Mimics the human body shape, has sweating and heating functions, and can measure dry heat dissipation and evaporative heat dissipation through clothing under steady-state conditions: body model: [Source: GB/T 39605-2020,3:3] 3:3 Total heat loss total heat loss The sum of dry heat dissipation and evaporative heat dissipation transferred through the clothing system under specified conditions: 3:4 Base cooling power base cooling power The total amount of heat dissipated by the sweating body warming dummy when the cooling function of the clothing is turned off or when the cooling function clothing is not worn: 3:5 The instantaneous heat dissipation power and the baseline heat dissipation power of the sweating warm-up dummy when the heat dissipation function of the clothing is turned on or when wearing the heat dissipation function clothing: