

DIN SPEC 60015:2019-04 (E)

Quantitative measurement of the evaporative heat loss of smart textile materials for work, sports / outdoor and leisure; Text in English

Contents		Page
Foreword		3
Introduction.....		4
1 Scope.....		5
2 Normative references		5
3 Terms and definitions.....		5
4 Requirements		7
5 Preparation of samples		7
6 Test method and Procedure.....		8
6.1 General.....		8
6.2 Apparel protocol for work, sports/outdoor and leisure		8
6.2.1 Procedure of the apparel protocol.....		9
6.3 Towel protocol		9
6.4 IR protocol		9
7 Evaluation.....		9
7.1 General.....		9
7.2 Calculation of parameters		12
7.2.1 Wicking power ($P_{wicking}$).....		12
7.2.2 Cooling power ($P_{cooling}$)		12
7.2.3 Drying time (t_{drying}).....		13
7.2.4 Fabric Cooling Efficiency Index (I_{FCE}).....		13
7.2.5 Thermal barrier index.....		13
8 Test Report.....		13
Annex A (informative) Further applications.....		14
A.1 Towel protocol (Sports Medical/therapeutic applications for long-lasting cooling).....		14
A.2 IR protocol/Heating (heat gain electric, capture solar energy) in terms of counteractive evaporative heat loss		15
Annex B (informative) Future applications.....		17