

DIN EN 31092:2013-01 (E)

Textiles - Physiological effects - Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test) (ISO 11092:1993 + Amd.1:2012) (includes Amendment :2012)

Contents

Page

Foreword.....	3
Foreword to EN 31092:1993/A1:2012.....	3
Introduction	4
1 Scope	5
2 Definitions	5
3 Symbols and units	6
4 Principle.....	6
5 Apparatus	7
6 Test specimens	9
6.1 Materials ≤ 5 mm thick	9
6.2 Materials > 5 mm thick	9
7 Test procedure	10
7.1 Determination of apparatus constants	10
7.1.1 Determination of R_{ct0}	10
7.1.2 Determination of R_{et0}	10
7.1.3 Reference material.....	10
7.1.4 Recalibration	10
7.2 Assembly of test specimens on the measuring unit.....	10
7.3 Measurement of thermal resistance R_{ct}	11
7.4 Measurement of water-vapour resistance R_{et}	11
8 Precision of results.....	11
8.1 Repeatability.....	11
8.2 Reproducibility.....	12
9 Test report	12
Annex A (normative) Mounting procedure for specimens containing loose filling materials or having uneven thickness	13
Annex B (normative) Determination of corrections terms for heating power	14
Annex C (informative) Guidance on test specimen assembly for materials prone to swelling.....	15
C.1 General.....	15
C.2 Additional guidance for a test specimen assembly for materials prone to swelling	15