

ISO 15831:2004-02 (E)

Clothing - Physiological effects - Measurement of thermal insulation by means of a thermal manikin

| Contents | | Page |
|--|---|-------------|
| Foreword | | iv |
| 1 | Scope | 1 |
| 2 | Terms and definitions | 1 |
| 3 | Symbols and units | 2 |
| 4 | Principle | 2 |
| 5 | Apparatus | 3 |
| 5.1 | Manikin | 3 |
| 5.2 | Controlled climatic chamber | 4 |
| 6 | Selection and preparation of test garments | 5 |
| 7 | Test procedure | 5 |
| 8 | Recalibration of the manikin system | 6 |
| 9 | Calculation of test results | 6 |
| 9.1 | General | 6 |
| 9.2 | Serial model -- Surface area weighted thermal insulation | 6 |
| 9.3 | Parallel model -- Surface area averaged thermal insulation | 6 |
| 10 | Precision of results | 7 |
| 11 | Test report | 7 |
| Annex A (informative) Calculation of test results | | 8 |
| Bibliography | | 11 |