DIN EN ISO 17751-1:2023-12 (E)

Textiles - Quantitative analysis of cashmere, wool, other specialty animal fibres and their blends - Part 1: Light microscopy method (ISO 17751-1:2023)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **6**

1 Scope ... **7**

2 Normative references ... **7**

3 Terms and definitions ... **7**

4 Principle ... **8**

5 Reagents ... **9**

6 Apparatus ... **9**

7 Sampling ... **9**

8 Conditioning ... **9**

9 Preparation of test specimens ... **9**
9.1 Number of test specimens ... 9
9.2 Preparation method for test specimens ... 10
9.2.1 Loose fibre ... 10
9.2.2 Sliver ... 10
9.2.3 Yarn ... 10
9.2.4 Woven fabrics ... 10
9.2.5 Knitted fabrics ... 11
9.3 Pre-treatment of the laboratory sample ... 11

10 Procedure ... **11**
10.1 General ... 11
10.2 Setting of magnification with micrometer scale ... 11
10.3 Fibre identification and fibre diameter measurement ... 11
10.3.1 Projection microscope with graduated scale in millimetre on the screen ... 11
10.3.2 Projection microscope used to measure the fibre diameter with wedge scale or a transparent moveable linear-rule-type scale ... 12
10.3.3 Visual microscopic image analyser ... 13
10.3.4 Transmitted-light type microscope ... 13

11 Calculation and expression of test result ... **13**
11.1 Calculation of test result ... 13
11.2 Expression of test result ... 14

12 Test report ... **14**

Annex A (normative) **Drawing of the lot sample and the laboratory sample** ... **15**

Annex B (informative) **Decolouration** ... **16**

Annex C (informative) **Surface morphology of common animal fibres** ... **17**

Annex D (normative) **Density of common animal fibres** ... **50**

Bibliography ... **51**