



DRAFT AMENDMENT ISO 9867:1991/DAmD 1

ISO/TC 38/SC 2

Secretariat: **ANSI**

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Textiles — Evaluation of the wrinkle recovery of fabrics — Appearance method

AMENDMENT 1

Textiles — Évaluation de la défroissabilité de tissus — Méthode d'évaluation de l'aspect
AMENDEMENT 1

ICS 59.080.30

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Amendment 1 to ISO 9867:1991 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 2, *Cleansing, finishing and water resistance tests*.

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Textiles — Evaluation of the wrinkle recovery of fabrics — Appearance method

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Pg. 6, Annex B (informative)

New annex added

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ANNEX B (informative)

Digital Description of the ISO Wrinkle Replicas

B.1 This informative annex provides the digital description of 3D replicas. The data are not intended to be used to assess specimens. When assessing specimens, the 3D replicas are to be used.

B.2 Processes of Measurement and Analysis

B.2.1 A 3-dimensional scanning system was used to measure digital images of ISO smoothness replicas as shown in Figure B.1. Specifications for the scanning system are shown in Table B.1.

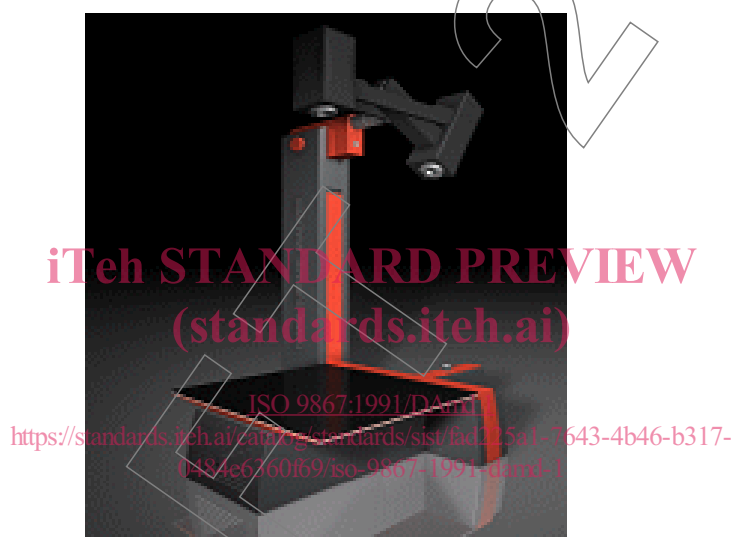


Figure B.1 — 3-Dimensional scanning system

Table B.1 — Specification of the 3-dimensional scanning system

Camera	1024 × 768 pixel, B/W
Special Pattern	Structural beam by halogen lamp
Adjustment of focus	Using the laser point light source
Measurement time	70 ~ 80 sec
Resolution	± 0,05 mm

B.2.2 Measuring area is shown in Figure B.2

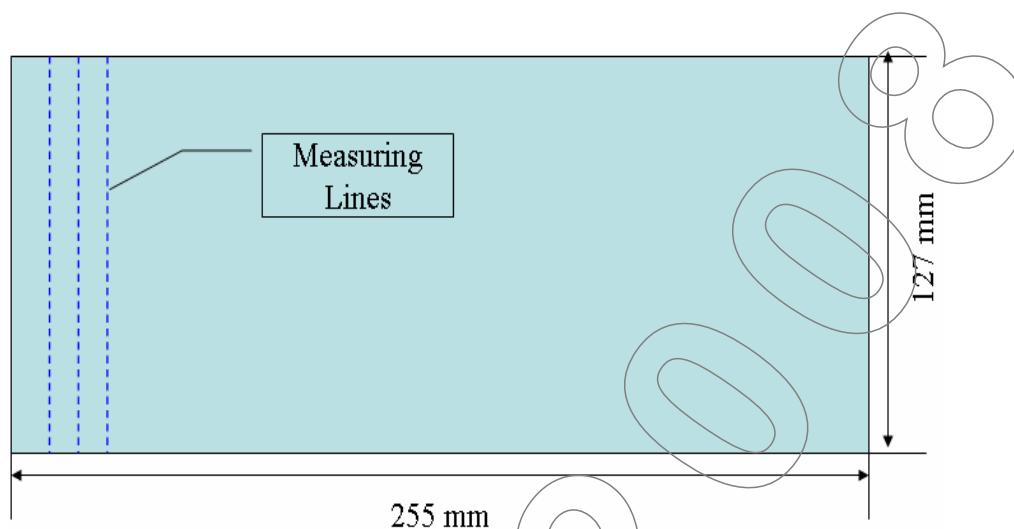


Figure B.2 Measuring area of wrinkle replica

B.2.3 The 3-dimensional measured images are separately stored as six regions to be divided intentionally for analysis. See Figure B.3.

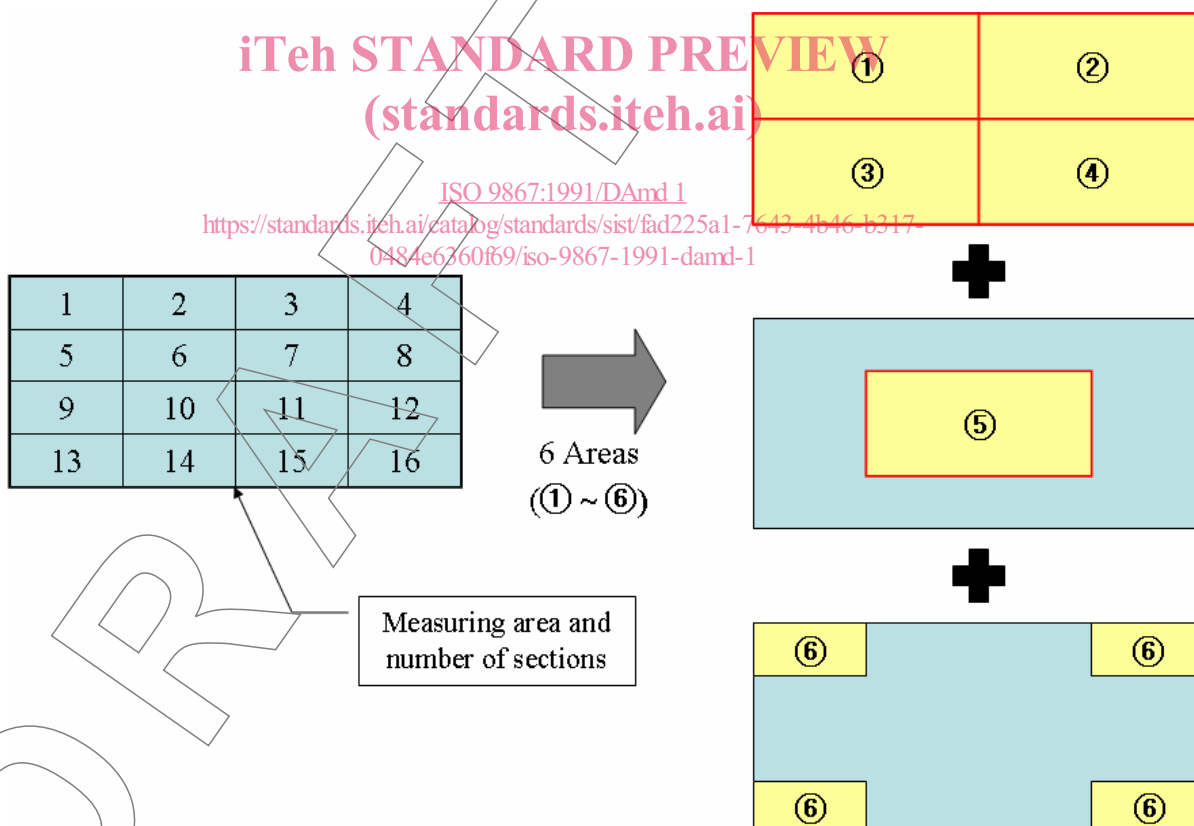


Figure B.3 — Six regions for smoothness replica analysis

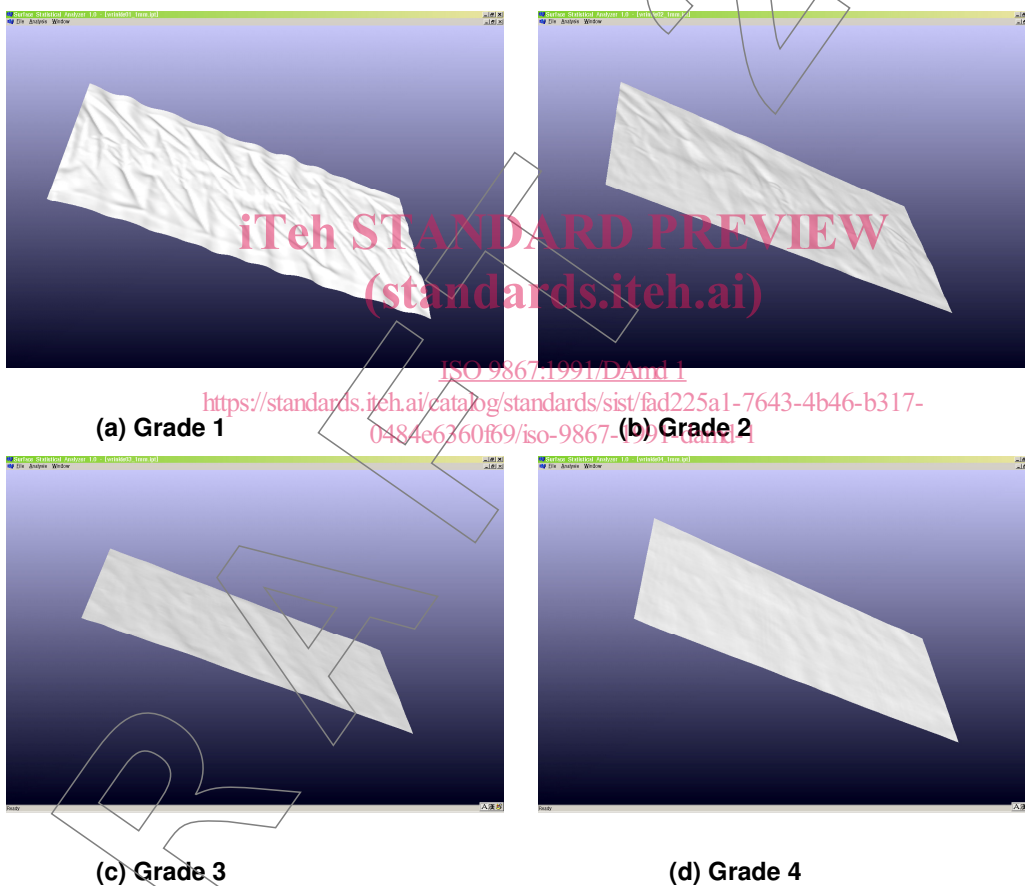
B.2.4 A geometric shape of each standard replica is measured using a 3-dimensional laser scanning system at an interval with 1 mm. The number of measuring points along each line is determined by the intervals.

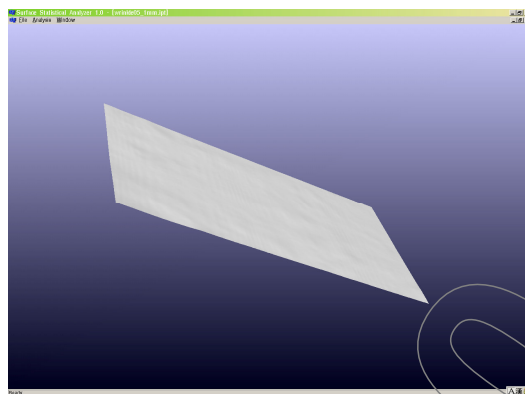
To analyze the replicas, define six shape parameters that have an influence on grade of replica. They are mean of heights, maximum of heights, variation of heights, mean of height frequency, maximum of height frequency, variation of height frequency. For each region, one can get 6 parameters.

B.3 Analysis of Wrinkle with 1 mm Measurements

B.3.1 Measured Images of Wrinkle Replicas

Measured images of wrinkle replicas using 3-dimensional scanning system at the intervals of 1mm.





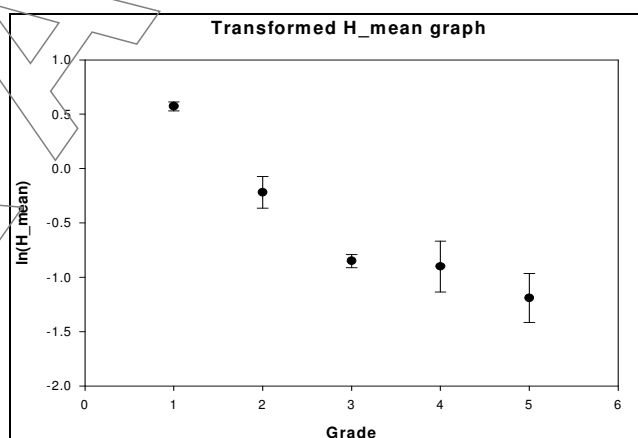
(e) Grade 5

Figure B.4 — Measured images of wrinkle replicas

B.3.2. Analysis of Parameters

B.3.2.1 Mean of Height (H_{mean})

ANOVA test and Tukey's method were performed to confirm differences in this parameter among grades. From the results of the ANOVA test, the difference in grades was confirmed at the 95% confidence level. The results of the Tukey's method indicated no significant differences between grade 3 and 4 and between grade 4 and 5. The parameter is transformed to a logarithmic form to minimize this actual state. The transformed parameter is also analyzed with the ANOVA test and the Tukey's method. While differences of the transformed parameter among grades are again confirmed at the 95% confidence level in the ANOVA test, the difference between grade 3 and 4 remains unconfirmed at same condition in the Tukey's method. Figure B.5 presents the relationship between wrinkle grade and original mean of height. Figure B.6 shows the relationship between wrinkle grade and transformed mean of height.

Figure B.5 — Relationship between grades and original H_{mean}