



## DRAFT AMENDMENT ISO 7769:2006/DAmD 1

ISO/TC 38/SC 2

Secretariat: **ANSI**

Voting begins on:  
**2008-04-02**

Voting terminates on:  
**2008-09-02**

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# Textiles — Test method for assessing the appearance of creases in fabrics after cleansing

## AMENDMENT 1

*Textiles — Méthode d'essai pour l'évaluation de l'aspect des plis des étoffes après nettoyage*

*AMENDEMENT 1*

ICS 59.080.30

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Amendment 1 to ISO 7769:2006 was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 2, *Cleansing, finishing and water resistance tests*.

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# Textiles — Test method for assessing the appearance of creases in fabrics after cleansing

## AMENDMENT 1

### Pg. 9, Annex B (informative)

New annex added

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## ANNEX B (informative)

### Digital Description of the ISO Crease 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.

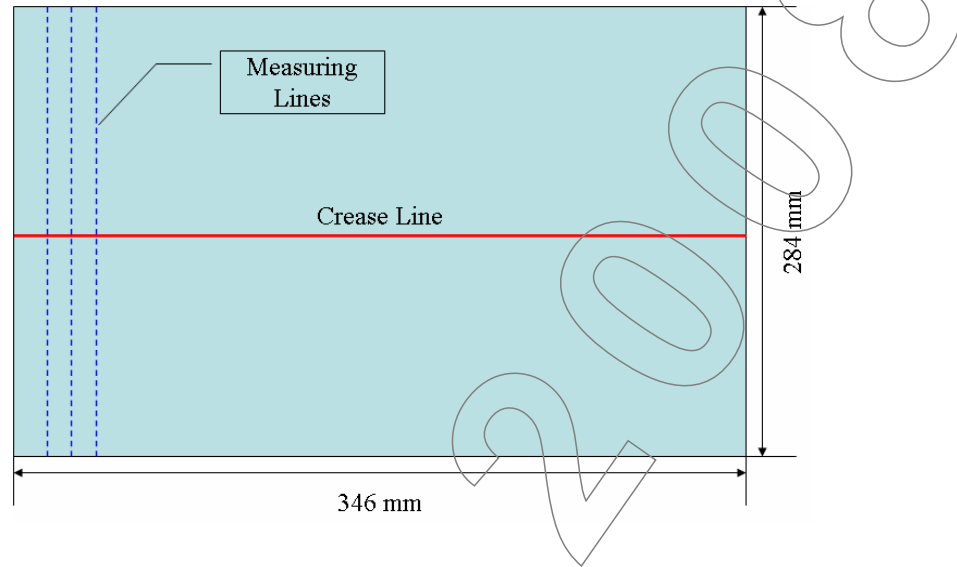


**Figure B.1 — 3-Dimensional scanning system**

**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 crease replica**

**B.2.3** A geometric shape of each standard replica is measured using 3-dimensional laser scanning system in a perpendicular direction with the crease line of the replicas at two intervals with 0,375 mm and 1 mm, respectively. The measuring point intervals along each line are same as the line intervals, 0,375 mm and 1 mm, respectively. The number of measuring points along each line is determined by the intervals.

To analyze the replicas, we defined maximum of heights which is the most important shape parameter having an influence on grade of replica. It means the height of peak points of a crease line. For each line, we can get the parameter.

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### **B.3 Analysis of Crease with 1 mm Measurements**

**B.3.1** Figure B.3 is showing measured images of crease replicas using 3-dimesional scanning system at the intervals of 1 mm.

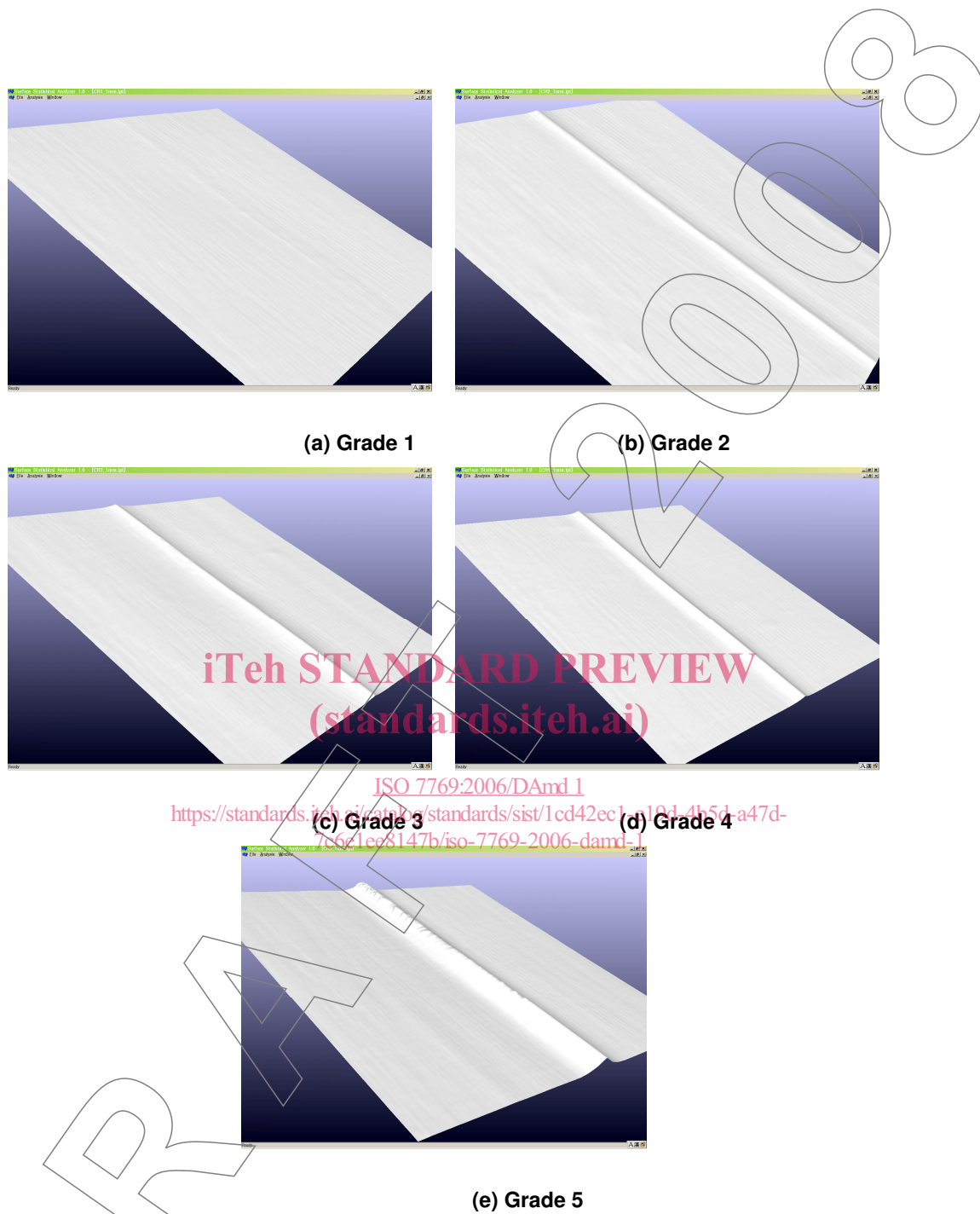


Figure B.3 — Measured images of crease replicas

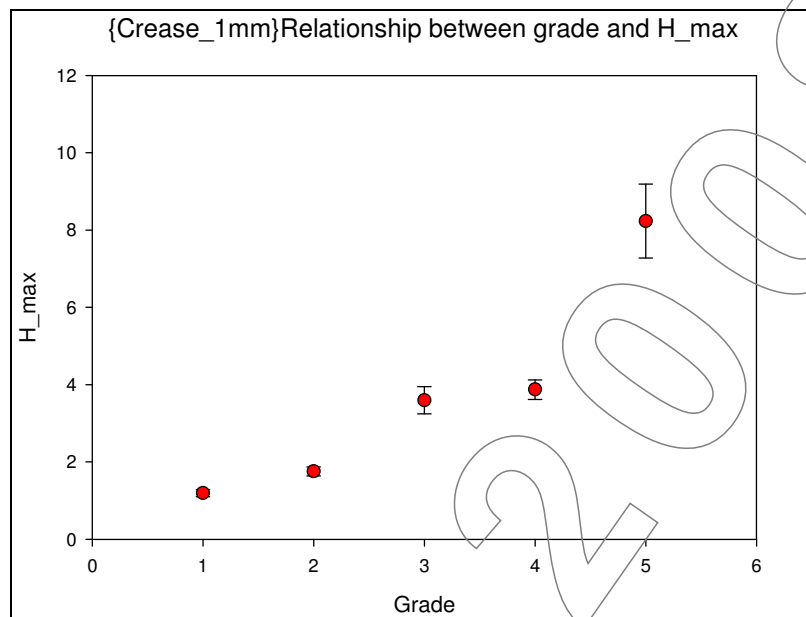
### B.3.2 Analysis of Parameters

#### B.3.2.1 Mean of Height ( $H_{\text{mean}}$ )

Figure B.4 shows the relationship between crease grade and maximum of height. ANOVA test and Tukey's method were performed to confirm differences in this parameter among grades.

With an ANOVA test and Tukey's method, all grades with this data are classified at the 95% confidence level.





**Figure B.4 — Relationship between grade and maximum of height**

A simple regression analysis is performed to confirm the linear relationship between the grade of replicas and maximum value of height. From the results of this analysis, the R-squared value is 82,60 %, as shown in Table B.2.

**Table B.2 — Results of a simple regression analysis on mean of height**

Regression Equation	Grade = 1,10 – 0,510H <sub>max</sub>
R <sup>2</sup>	82,60 %

### B.3.3. Correlation Analysis

The objective grade is obtained from simple regression equation. Using the regression equation, we could compare objective grade with subjective grade from correlation analysis. Table B.3 presents the correlation coefficient between the objective and subjective grades. Figure B.5 shows the relationship between subjective grade and objective crease grade obtained from the regression equation.

**Table B.3 — Results of a simple regression analysis on mean of height**

Correlation coefficient	0,909
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