



SLOVENSKI STANDARD

SIST ENV 1007-2:2000

01-december-2000

Advanced technical ceramics - Ceramic composites - Methods of test for reinforcements - Part 2: Determination of linear density

Advanced technical ceramics - Ceramic composites - Methods of test for reinforcements - Part 2: Determination of linear density

Hochleistungskeramik - Keramikfasern für keramische Verbundwerkstoffe - Teil 2: Bestimmung der Feinheit

Céramiques techniques avancées - Renforcement à base de fibres céramiques pour utilisation dans des composites céramiques - Partie 2: Détermination de la masse linéique

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Ta slovenski standard je istoveten z: **ENV 1007-2:1993**

ICS:

81.060.30 Sodobna keramika Advanced ceramics

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EUROPEAN PRESTANDARD

ENV 1007-2:1993

PRÉNORME EUROPÉENNE

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Descriptors: Composite materials, reinforcing materials, ceramics, tests, determination, linear density

English version

**Advanced technical ceramics - Ceramics
composites - Methods of test for reinforcements -
Part 2: Determination of linear density**

Céramiques techniques avancées - Renforcement
céramiques pour utilisation dans des composites
céramiques - Partie 2: Détermination de la
masse linéique

Hochleistungskeramik - Keramikfasern für
keramische Verbundwerkstoffe - Teil 2:
Bestimmung der Feinheit

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CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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INTERNATIONAL STANDARD

Foreword

This European Prestandard has been prepared by CEN/TC 184 "Advanced technical ceramics" of which the secretariat is held by BSI.

CEN/TC 184 approved this European Prestandard by resolution 2/1991 during its fourth meeting held in Brussels on 1991-09-10.

ENV 1007 has four parts:

Part 1: Determination of size content

Part 2: Determination of linear density

Part 3: Determination of filament diameter

Part 4: Determination of tensile strength of filament at ambient temperature

This European Prestandard has been prepared under a mandate given to CEN by the Commission of the European Communities and the European Free Trade Association, and supports essential requirements of the EC Directive(s).

According to the CEN/CENELEC Internal Regulations, the following countries are bound to announce this European Prestandard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

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6 Sampling

Sampling of yarns shall be conducted according to ISO 1886 to determine the number of elementary units to sample.

At least, three samples shall be taken at random from each elementary unit (spools).

Two separate test specimens shall be tested for each sample.

7 Testing atmosphere

Sampling and testing shall be carried out in a standard atmosphere of $23\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ and $50\% \pm 5\%$ relative humidity, in accordance with ISO 291.

8 Procedure

Determine the number of test specimens in accordance with clause 6. If the yarn is delivered on a spool, discard any damaged yarn before testing and unwind the yarn to be tested tangentially.

Place the ceramic yarn in the cutting device and cut to the defined measured length and then apply a pre-tension about $(5 \pm 2.5)\text{ mN/tex}$ and cut to the defined measured length. Cut as many pieces per individual measurement until a minimum weighed mass of 0.1 g is achieved.

9 Calculation

Calculate the linear density T_t in tex using the following formula:

$$T_t = \frac{m}{L} \cdot 10^3$$

where

m = mass of test specimen in grams

L = length of test specimen in metres

The linear density of each sample is calculated on the basis of the arithmetic mean of all individual measurements.

The linear density of the elementary unit is calculated on the basis of the arithmetic mean of the values of all samples.

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10 Test report

The test report shall contain the following information:

- a) the name and address of the testing establishment
- b) the date of the test, unique identification of report and of each page, customer name and address and signatory
- c) a reference to this Standard, i.e. 'Determined in accordance with ENV 1007-2:1993
- d) the description of the test material; type of fibre, batch number, date of receipt
- e) the linear density of each test piece (see clause 6)
- f) comments about the test or test results

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