

**Reinforcement - Specifications for  
woven fabrics - Part 2: Methods of test  
and general requirements**

Reinforcement - Specifications for woven fabrics -  
Part 2: Methods of test and general requirements

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13417-2:2002 sisaldab Euroopa standardi EN 13417-2:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.04.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13417-2:2002 consists of the English text of the European standard EN 13417-2:2001.</p> <p>This document is endorsed on 19.04.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This part 2 of EN 13417 defines the test methods to be used to determine the designated and specified properties given in Parts 1 &amp; 3 respectively. This part 2 of EN 13417 defines the general requirements applicable to the specification of all types of woven fabrics falling within the scope of this specification as defined in Part 1 of the standard.</p>	<p><b>Scope:</b> This part 2 of EN 13417 defines the test methods to be used to determine the designated and specified properties given in Parts 1 &amp; 3 respectively. This part 2 of EN 13417 defines the general requirements applicable to the specification of all types of woven fabrics falling within the scope of this specification as defined in Part 1 of the standard.</p>
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ICS 59.100.01

**Võtmesõnad:** cloth, fabrics, reinforcing material, specification (approval), specifications, test methods, textil glass fabrics, textile glass

ICS 59.100.01

English version

## Reinforcement - Specifications for woven fabrics - Part 2: Methods of test and general requirements

Renfort - Spécifications des tissus - Partie 2: Méthodes  
d'essai et exigences générales

Verstärkung - Spezifikationen für Gewebe - Teil 2:  
Prüfverfahren und allgemeine Anforderungen

This European Standard was approved by CEN on 16 August 2001.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

EN 13417 consists of the following parts, under the general titre "*Reinforcement – Specifications for woven fabrics*":

- *Part 1 : Designation*
- *Part 2 : Methods of tests and general requirements*
- *Part 3 : Specific requirements*

This standard includes a Bibliography.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

1.1 This Part 2 of EN 13417 defines the test methods to be used to determine the designated and specified properties given in Parts 1 & 3 respectively.

1.2 This Part 2 of EN 13417 defines the general requirements applicable to the specification of all types of woven fabrics falling within the scope of this specification as defined in Part 1 of the standard.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 13417-1; *Reinforcement – Specifications for woven fabrics – Part 1 : Designation*

EN 13417-3; *Reinforcement – Specifications for woven fabrics – Part 3: Specific requirements*

EN ISO 527-4, *Plastics - Determination of tensile properties - Part 4 : Test conditions for isotropic and orthotropic fibre-reinforced plastic composites (ISO 527-4:1997).*

EN ISO 1886, *Reinforcement fibres - Sampling plans applicable to received batches (ISO 1886:1990).*

EN ISO 2078, *Textile glass - Yarns – Designation.*

EN ISO 3344, *Reinforcement Products - Determination of moisture content (ISO 3344:1997).*

EN ISO 10548, *Carbon fibre - Determination of size content (ISO 10548:1994).*

ISO 472, *Plastics – Vocabulary.*

ISO 1887, *Textile glass - Determination of combustible matter content.*

ISO 1888, *Textile glass - Staple fibres or filaments - Determination of average diameter.*

ISO 3374, *Reinforcement products – Mats and fabrics - Determination of mass per unit area.*

ISO 4602, *Reinforcements – Woven fabrics – Determination of number of yarns per unit length of warp and weft*

ISO 4603, *Textile glass - Woven fabrics - Determination of thickness.*

ISO 4604, *Textile glass - Woven fabrics - Determination of conventional flexural stiffness - Fixed angle flexometer method.*

ISO 5025, *Reinforcement products - Woven fabrics - Determination of width and length.*

ISO 11567, *Carbon fibre - Determination of filament diameter and cross-sectional area.*

## 3 Terms and definitions

For the purposes of this Part 2 of EN 13417 the terms and definitions given in ISO 472 apply.

## 4 List of Properties

The list of properties with the applicable test method shall be considered as a guide for the selection of the properties and limits which will be applicable to the technical specifications given in Part 3 of this standard.