

**Textiles - Seam tensile properties of fabrics
and made-up textile articles - Part 1:
Determination of maximum force to seam
rupture using the strip method**

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made-up textile articles - Part 1: Determination of
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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN ISO 13935-1:2001 sisaldab Euroopa standardi EN ISO 13935-1:1999 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.06.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN ISO 13935-1:2001 consists of the English text of the European standard EN ISO 13935-1:1999.</p> <p>This document is endorsed on 18.06.2001 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>Käsitlusala:</p> <p>This part of EN ISO 13935 describes the strip test determination of the seam maximum force of sewn seams. Part 2 will describe the method known as the grab test. The method is mainly applicable to woven textile fabrics. It can be applicable to fabrics produced by other techniques. It is not normally applicable to woven elastic fabrics, geotextiles, nonwovens, coated fabrics, textile-glass woven fabrics and fabrics made from carbon fibres or polyolefin tape yarns. The sewn fabrics may be obtained from previously sewn articles or may be prepared from fabric samples. This method is applicable to straight seams only and not to curved seams.</p>	<p>Scope:</p> <p>This part of EN ISO 13935 describes the strip test determination of the seam maximum force of sewn seams. Part 2 will describe the method known as the grab test. The method is mainly applicable to woven textile fabrics. It can be applicable to fabrics produced by other techniques. It is not normally applicable to woven elastic fabrics, geotextiles, nonwovens, coated fabrics, textile-glass woven fabrics and fabrics made from carbon fibres or polyolefin tape yarns. The sewn fabrics may be obtained from previously sewn articles or may be prepared from fabric samples. This method is applicable to straight seams only and not to curved seams.</p>
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English version

Textiles

Seam tensile properties of fabrics and made-up textile articles

**Part 1: Determination of maximum force to seam rupture using
the strip method**

(ISO 13935-1 : 1999)

Textiles – Propriétés de résistance à la traction des coutures d'étoffes et d'articles textiles confectionnés –
Partie 1: Détermination de la force maximale avant rupture des coutures par la méthode sur bande
(ISO 13935-1 : 1999)

Textilien – Zugversuche an Nähten in textilen Flächengebilden und Konfektionstextilien – Teil 1: Bestimmung der Höchstzugkraft von Nähten mit dem Streifen-Zugversuch
(ISO 13935-1 : 1999)

This European Standard was approved by CEN on 1998-11-21.

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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

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

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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Foreword

The text of EN ISO 13935-2:1999 has been prepared by Technical Committee CEN/TC 248 "Textiles and textile products", the secretariat of which is held by BSI, in collaboration with Technical Committee ISO/TC 38 "Textiles".

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 August 1999, and conflicting national standards shall be withdrawn at the latest by August 1999.

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.

Introduction

This part of EN ISO 13935 has been prepared in the context of several test methods for determination of certain mechanical properties of textiles using mainly tensile testing machines, e.g. tensile properties, seam tensile properties, tear properties, seam slippage. The procedure for these standards agree where appropriate. The results obtained by one of the methods should not be compared with those obtained by the other methods. See annex A for informative references.

EN ISO 13935 consists of the following parts, under the general title Textiles - Seam tensile properties of fabrics and made-up textile articles:

- Part 1: Determination of maximum force to seam rupture using the strip method
- Part 2: Determination of maximum force to seam rupture using the grab method

Annex A of this part of EN ISO 13935 is for information only.

Where it is intended to compare the seam maximum force values of sewn seams with the fabric maximum force, it is important to use the same type of test, test conditions and test specimens in the tests in this standard and EN ISO 13934-1 (see annex A).

1 Scope

This part of EN ISO 13935 specifies a procedure to determine the seam maximum force of sewn seams when the force is applied perpendicularly to the seam. This part EN ISO 13935 specifies the method known as the strip test.

Note : Part 2 of EN ISO 13935 describes the method known as the grab test. For informative references see annex A.

The method is mainly applicable to woven textile fabrics. It can be applicable to fabrics produced by other techniques. It is not normally applicable to woven elastic fabrics, geotextiles, nonwovens, coated fabrics, textile-glass woven fabrics and fabrics made from carbon fibres or polyolefin tape yarns (see annex A).

The sewn fabrics may be obtained from previously sewn articles or may be prepared from fabric samples, as agreed by the parties interested in the results.

This method is applicable to straight seams only and not to curved seams.

The method is restricted to the use of constant rate of extension (CRE) testing machines.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

EN 20139	Textiles - Standard atmospheres for conditioning and testing (ISO 139:1973)
EN 10002-2	Metallic materials - Tensile testing - Part 2: Verification of the force measuring system of the tensile testing machines
EN 30012-1	Quality assurance requirements for measuring equipment - Part 1: Metrological confirmation system for measuring equipment (ISO 10012-1:1992)