ICS 59.080.30 SLOVENSKÁ TECHNICKÁ NORMA Október 2026

STN	**Textílie** **Ťahové vlastnosti švov na plošných textíliách a konfekčných výrobkoch** **Časť 2: Stanovenie maximálnej sily pri pretrhnutí šva metódou Grab (ISO 13935-2: 2026)**	**STN** **EN ISO 13935-2** 80 0841

Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 2: Determination of maximum force to seam rupture using the grab method (ISO 13935-2:2026)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 09/26

Obsahuje: EN ISO 13935-2:2026, ISO 13935-2:2026

Oznámením tejto normy sa ruší
STN EN ISO 13935-2 (80 0841) z januára 2016

142774

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2026
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 13935-2

April 2026

ICS 59.080.30

Supersedes EN ISO 13935-2:2014

English Version

Textiles - Seam tensile properties of fabrics and made-up textile articles - Part 2: Determination of maximum force to seam rupture using the grab method (ISO 13935-2:2026)

Textiles - Propriétés de résistance à la traction des coutures d'étoffes et d'articles textiles confectionnés - Partie 2: Détermination de la force maximale avant rupture des coutures par la méthode d'arrachement (Grab test) (ISO 13935-2:2026)

Textilien - Zugversuche an Nähten in textilen Flächengebilden und Konfektionstextilien - Teil 2: Bestimmung der Höchstzugkraft von Nähten mit dem Grab-Zugversuch (ISO 13935-2:2026)

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European foreword

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International Standard

ISO 13935-2

Textiles — Seam tensile properties of fabrics and made-up textile articles —

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

Textiles — Propriétés de résistance à la traction des coutures d'étoffes et d'articles textiles confectionnés —

Partie 2: Détermination de la force maximale avant rupture des coutures par la méthode d'arrachement (Grab test)

Third edition
2026-04

Reference number
ISO 13935-2:2026(en)

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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 24, *Conditioning atmospheres and physical tests for textile fabrics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 13935-2:2014), which has been technically revised.

The main changes are as follows:

— in Clause 3, a definition of structural seam (3.5) has been added;

— in Clause 5, details on the seam sampling have been added;

— in 6.1.7, a third option c) for the clamps has been added;

— 8.2, a subclause dedicated to preparation of adjacent test specimens has been revised;

— 8.3, a subclause dedicated to preparation of test specimens from garments has been revised;

— a new Annex B related to straight seams and sampling of structural seams on garments has been added.

A list of all parts in the ISO 13935 series can be found on the ISO website.

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Introduction

This document 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 agrees where appropriate. The results obtained by one of the methods should not be compared with those obtained by the other methods. See References [2], [3] and [4].

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 document and ISO 13934-2[2].

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International Standard **ISO 13935-2:2026(en)**

Textiles — Seam tensile properties of fabrics and made-up textile articles —

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

1 Scope

This document specifies methods for the determination of seam maximum force of sewn seams when the force is applied perpendicularly to the seam. It describes the method known as the grab test.

The method defined in this document is applicable to woven textile fabrics, including fabrics which exhibit stretch characteristics imparted by the presence of an elastomeric fibre, mechanical or chemical treatment. It can be applicable to fabrics produced by other techniques. It is normally not applicable to geotextiles, nonwovens, coated fabrics, textile-glass woven fabrics and fabrics made from carbon fibres or polyolefin tape yarns.[2], [3], [4]

This method is applicable to straight seams only (obtained from previously sewn articles or prepared from fabric samples) and not to curved seams (see Annex B for considerations on seams).

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

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 139, *Textiles — Standard atmospheres for conditioning and testing*

ISO 7500-1, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system*

ISO 10012, *Measurement management systems — Requirements for measurement processes and measuring equipment*

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