



SLOVENSKI STANDARD

SIST EN 1414:1999

01-marec-1999

Sprijemna zapenjala - Postopek cikličnega zapiranja in odpiranja

Touch and close fasteners - Cycling procedure for subsequent testing

Haftverschlüsse - Schließ- und Öffnungsverfahren für nachfolgende Prüfungen

Fermetures auto-agrippantes - Appareil simulateur d'usage

Ta slovenski standard je istoveten z: EN 1414:1996

[SIST EN 1414:1999](https://standards.iteh.ai/catalog/standards/sist/b2bd19f1-6dd0-4696-8031-2685d8bac789/sist-en-1414-1999)

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ICS:

61.040	Pokrivala. Dodatki k oblačilom. Spenjanje oblačil	Headgear. Clothing accessories. Fastening of clothing
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EUROPEAN STANDARD

EN 1414

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 1996

ICS 61.040

Descriptors: haberdashery, tapes, touch and close fasteners, operating requirements, artificial ageing tests, measurements, mechanical strength

English version

Touch and close fasteners - Cycling procedure for subsequent testing

Fermetures auto-agrippantes
simulateur d'usage

Appareil

Haftverschlüsse - Schließ- und
Öffnungsverfahren für nachfolgende Prüfungen

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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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

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

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

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 248 "Textiles and textile products", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by May 1997, and conflicting national standards shall be withdrawn at the latest by May 1997.

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

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1 Scope

This European Standard specifies an apparatus and method for submitting touch and close fasteners to opening and closing cycles in order to simulate use.

The touch and close fasteners subjected to these cycles will be used in subsequent physical tests intended to measure the residual mechanical strength characteristics.

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.

EN 20139	Textiles - Standard atmospheres for conditioning and testing(ISO 139 : 1973).
prEN 12240	Touch and close fasteners - Determination of the overall and effective widths of tapes and the effective width of a closure.

3 Principle

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An apparatus is used to open and close a touch and close fastener of a specific width a specified number of times.

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4 Apparatus

The apparatus comprises two drums mounted one on top of the other (see figure 1):

- the bottom drum is 110 mm wide and 160 mm in diameter;
- the top drum has the same width and is 162,5 mm in diameter.

The two drums shall have a slot to receive the end of the test specimens and a tensioning device (see figure 2).

The top drum shall be free to rotate. It shall be fitted with variable weight according to the total effective width of the touch and close fastener in order to apply a constant load

The bottom drum shall rotate at a constant speed of $(60 \pm 5) \text{ min}^{-1}$. The direction of rotation shall be reversed every 30 s.

The rotation of the bottom drum is transmitted to the top drum by the physical contact of the touch and close fasteners.

The apparatus shall be fitted with a counter which records the number of rotations of the bottom drum regardless of the direction of rotation.

5 Test specimens

Take test specimens of male and female tapes of the same overall width.

Cut consecutive test specimens long enough to be fixed into the drum slots. It is recommended covering the drums in accordance with table 1 in order to ensure good repeatability of the simulation method.

Table 1 : Number of tapes

Overall width of tapes mm	Number of tapes
0 to 20	5
above 20 to 25	4
above 25 to 33	3
above 33 to 50	2
above 50	1

6 Conditioning

Condition the test specimens for at least 24 h in accordance with the standard atmosphere for testing as specified in EN 20139. The test shall be carried out in this atmosphere.

7 Procedure

Determine the overall width of the tapes in accordance with prEN-12240. From table 1 determine the number of tapes with which to load the apparatus. Determine the effective width of the fastener in accordance with prEN 12240.

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Calculate the total effective width as a function of the number of test specimens to be fixed to the drums. Apply a mass of $(1 \pm 0,1)$ kg per cm of total effective width to the top drum.

Position and secure the female tape(s) on the bottom drum and the male tape(s) to the top drum. Ensure that the two tapes are correctly aligned and in permanent contact with the whole surface of the drums.

If it becomes difficult to keep the test specimens correctly aligned, or to keep them in contact with the drums, use double-sided adhesive tape to fix the backs of the tapes to the drums.

Start up the apparatus for the specified number of opening and closing cycles.

At the end of the test, remove the test specimens from the apparatus and remove the parts that have not been subjected to opening and closing cycles.

8 Test report

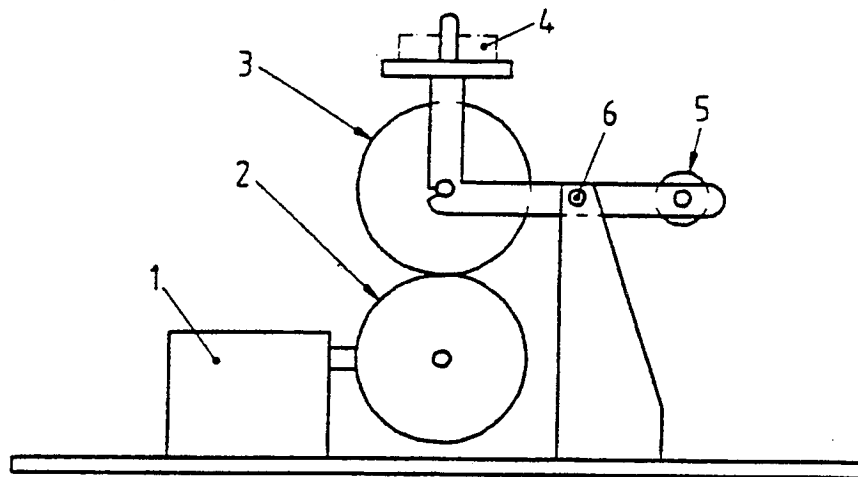
Report the following information:

- reference to this European Standard;
- identification of the touch and close fastener tapes;
- date of the test;
- any deviation from this European Standard and any incident likely to have affected the result.

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- 1 Motor
- 2 Bottom drum \varnothing 160,0 mm
- 3 Top drum \varnothing 162,5 mm
- 4 Variable mass according to total effective width
- 5 Counterweight
- 6 Pivot

Figure 1 : Cycling apparatus