
Tekstilije in tekstilni izdelki - 3. del: Varnost otroških oblačil - Varnost pritrditve mehansko pritrjenih kovinskih pritiskačev - Preskusna metoda

Textiles and textile products - Part 3: Safety of children's clothing - Security of attachment of metal mechanically applied press fasteners - Test method

Textilien und textile Produkte - Sicherheit von Kinderbekleidung - Teil 3: Sicherheit der Befestigung von mechanisch befestigten Druckknöpfen - Prüfverfahren

Textiles et produits textiles - Partie 3 : Sécurité des vêtements d'enfants - Sécurité d'attache des boutons-pression métalliques appliqués mécaniquement - Méthode d'essai

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ICS:

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| 61.020 | Oblačila | Clothes |
| 97.190 | Otroška oprema | Equipment for children |

kSIST-TS FprCEN/TS 17394-3:2019 **en,fr,de**

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ICS

English Version

Textiles and textile products - Part 3: Safety of children's clothing - Security of attachment of metal mechanically applied press fasteners - Test method

Textiles et produits textiles - Partie 3 : Sécurité des vêtements d'enfants - Sécurité d'attache des boutons-pression métalliques appliqués mécaniquement - Méthode d'essai

Textilien und textile Produkte - Sicherheit von Kinderbekleidung - Teil 3: Sicherheit der Befestigung von mechanisch befestigten Druckknöpfen - Prüfverfahren

This draft Technical Specification is submitted to CEN members for Vote. It has been drawn up by the Technical Committee CEN/TC 248.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (FprCEN/TS 17394-3:2019) has been prepared by Technical Committee CEN/TC 248 “Textiles and Textile Products”, the secretariat of which is held by BSI.

This document is currently submitted to the vote on TS.

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FprCEN/TS 17394-3:2019 (E)

Introduction

The aim of this document is to assess the attachment strength of metal mechanically applied press fasteners.

This document provides a method of test. A document providing a technical specification for security of attachment of applied components for infants' clothing is under development.

This document has been developed from Annex B of CEN/TR 16792:2014.

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1 Scope

This document defines a test method for security of attachment of functional and decorative metal mechanically applied press fasteners to children's clothing including garments such as gloves, hats, scarves, hosiery, ties, and textile belts.

IMPORTANT: Eyelets and rivets cannot be assessed by this method as the integrity of the component when attached to textile fabrics is destroyed in the gripping action. Eyelets and rivets shall be assessed as described in FprCEN/TS 17394-4:2019.

This document does not apply to:

- a) child care articles;
- b) shoes, boots and similar footwear;
- c) toys (see note 2);
- d) other articles sold with clothing.

NOTE 1 The above items are covered by other CEN Technical Committees and as such are out of scope of this document.

NOTE 2 Disguise costumes including carnival costumes are examples of clothing which are also toys and fall within the scope of the Toy Safety Directive.

The scope of this technical specification only applies to metal mechanically applied components. Work is in progress to developed standards for other garment components.

- prEN 17394-2:2019, Textiles and textile products - Safety of children's clothing - Security of attachment of buttons - Test method
- FprCEN/TS 17394-4:2019, Textiles and textile products - Safety of Children's clothing – Security of attachment of components except buttons and metal mechanically applied fasteners – Test method

Performance recommendations are provided in FprCEN/TS 17394-1:2019

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

FprCEN/TS 17394-3:2019 (E)

3.1
press fastener
fastening device consisting of a male component and a female component that are attached to different parts of a garment and which are fastened by aligning the two components and pressing them together

Note 1 to entry: Press fasteners includes poppers and snaps.

Note 2 to entry: These may be functional or decorative.

3.2
rivet
component with two-part assembly, comprising a part (referred to as a burr) which is attached to the outer surface of the garment by a tack which passes through the fabric from the reverse side

Note 1 to entry: Rivets are usually used as reinforcements, particularly on the corners of pockets on denim and other casual garments.

Note 2 to entry: These may be functional or decorative.

3.3
eyelet
component used for example to reinforce a hole through a part of a garment, comprising a short metal tube with a flange at one end which is fastened to the garment by pushing it through the hole and compressing it against a die

Note 1 to entry: An eyelet may also include a washer on the reverse side.

Note 2 to entry: Eyelets are used to facilitate lacing or the insertion of a drawstring, to drain pockets and ventilate a garment.

Note 3 to entry: These may be functional or decorative.

3.4
child or young person
person aged from birth up to age 14 years (that is up to and including 13 years and 11 months) which includes all boys of height up to 182 cm and all girls of height up to 176 cm

[SOURCE: EN 14682:2014, merged 2.1 and 2.2]

3.5
children's clothing
all garments intended by design, production route or selling route to be worn by children up to the age of 14 years

[SOURCE: EN 14682:2014, 2.3]

3.6
garment assembly
section of a garment, made under production conditions, using production equipment and the components that are to be used in production

[SOURCE: CEN/TR 16792:2014, 3.10]

4 Sampling and selection of test specimens

A minimum of 5 replicate specimens of representative garments or garment assemblies should be selected to ensure:

- each type of attached component;
- each size of attached component;
- each component, fabric/substrate combination, including interlining ;

is assessed.

IMPORTANT: Eyelets and rivets cannot be assessed by this method as the integrity of the component when attached to textile fabrics is destroyed in the gripping action. Eyelets and rivets shall be assessed in accordance with Part 4.

It is recognized that this number of specimens might not always be available for testing at the design/development stage. In such circumstances a smaller number may be taken but the test results obtained should be interpreted with caution.

5 Procedure

5.1 General

This is a laboratory-based method designed for testing of the security of attachment of press fasteners, both functional and decorative. It may be used to test finished garments or garment assemblies at the relevant stages of garment design and production.

5.2 Principle

An attached component is held in the upper grip of a constant rate of extension (CRE) tensile testing machine and the garment to which it is attached is held in the lower grip. The grips are separated at a constant rate until the component is removed from the garment. The removal force and the mode of failure are recorded.

5.3 Apparatus

5.3.1 Constant rate of extension (CRE) tensile-testing machine.

The device should have a means for indicating and recording the force applied to the test specimen in stretching it to rupture. The metrological confirmation system for the tensile testing machine should be in accordance with EN ISO 10012. Under conditions of use, the accuracy of the machine should be Class 1 in accordance with EN ISO 7500-1:2004. The error of the indicated or recorded maximum force at any point in the range in which the machine is used should not exceed 1 %. The machine should be capable of maintaining a constant rate of extension of 100 mm/min, with an accuracy of 10 %.

The machine should be such that it is possible to set the gauge length to any value between 1,0 mm and 75 mm, to within 0,5 mm.