



NSAI
Standards

Irish Standard
I.S. EN 17394-2:2020

Textiles and textile products - Part 2:
Safety of children's clothing - Security of
attachment of buttons - Test method

I.S. EN 17394-2:2020

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:

EN 17394-2:2020

Published:

2020-10-07

This document was published under the authority of the NSAI and comes into effect on:

2020-10-26

ICS number:

61.020

97.190

NOTE: If blank see CEN/CENELEC cover page

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

National Foreword

I.S. EN 17394-2:2020 is the adopted Irish version of the European Document EN 17394-2:2020, Textiles and textile products - Part 2: Safety of children's clothing - Security of attachment of buttons - Test method

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

For relationships with other publications refer to the NSAI web store.

Compliance with this document does not of itself confer immunity from legal obligations.

In line with international standards practice the decimal point is shown as a comma (,) throughout this document.

This page is intentionally left blank

EUROPEAN STANDARD

EN 17394-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2020

ICS 61.020; 97.190

English Version

Textiles and textile products - Part 2: Safety of children's clothing - Security of attachment of buttons - Test method

Textiles et produits textiles - Partie 2 : Sécurité des vêtements d'enfants - Sécurité d'attache des boutons - Méthode d'essai

Textilien und textile Produkte - Teil 2: Sicherheit von Kinderbekleidung - Sicherheit der Befestigung von Knöpfen - Prüfverfahren

This European Standard was approved by CEN on 24 August 2020.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword.....	3
Introduction	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions	5
4 Method for determination of removal force of buttons	6
4.1 General.....	6
4.2 Principle	6
4.3 Apparatus.....	7
4.3.1 Constant rate of extension (CRE) tensile-testing machine.....	7
4.3.2 Upper button box	7
4.3.3 Lower base clamp.....	8
4.4 Atmosphere for conditioning and testing	10
5 Sampling and selection of test specimens.....	10
5.1 Sampling.....	10
5.2 Selection of test specimens.....	11
6 Procedure.....	11
6.1 Rate of extension or elongation	11
6.2 Machine set-up and test specimen mounting	11
6.3 Operation of the constant rate of extension (CRE) machine	12
7 Test report.....	12
Annex A (informative) Interlaboratory trial result.....	13
A.1 Background	13
A.2 Overall conclusion	13
A.3 Interlaboratory trial	13
A.3.1 Principle	13
A.3.2 Objective of trial	13
A.3.3 Trial method	14
A.3.4 Statistical methods	15
A.3.5 Results.....	15
A.3.6 Conclusion.....	21
Annex B (informative) Method of test for in-line production process control.....	22
Annex C (informative) Interpretation of results.....	23
Bibliography.....	24

European foreword

This document (EN 17394-2:2020) 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 April 2021, and conflicting national standards shall be withdrawn at the latest by April 2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This is Part 2 of a series of four documents:

- CEN/TS 17394-1,¹ *Textiles and textile products — Part 1: Safety of children's clothing — Security of attachment of attached components to infants' clothing — Specification*
- CEN/TS 17394-3,² *Textiles and textile products — Part 3: Safety of children's clothing — Security of attachment of metal mechanically applied press fasteners — Test method*
- CEN/TS 17394-4,³ *Textiles and textile products — Part 4: Safety of children's clothing — Security of attachment of components except buttons and metal mechanically applied press fasteners — Test method*

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

¹ Under preparation. Stage at the time of publication: FprCEN/TS 17394-1.

² Under preparation. Stage at the time of publication: FprCEN/TS 17394-3.

³ Under preparation. Stage at the time of publication: FprCEN/TS 17394-4.

EN 17394-2:2020 (E)

Introduction

The aim of this document is to assess the attachment strength of buttons.

This document provides a reference method of test for compliance assessment. A document providing performance specification for infants' clothing is under development.

For the convenience of the clothing industry, a simplified method is provided in Annex B for routine in-house process control, however this does not replace the reference method.

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

1 Scope

This document defines a test method for security of attachment of functional and decorative buttons to clothing including garments such as gloves, hats, scarves, hosiery, ties, and textile belts.

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 document is limited to sewn-on buttons, toggle buttons and tack buttons.

Assessment of other garment components are considered in:

- CEN/TS 17394-3, or
- CEN/TS 17394-4.

Performance requirements are provided in CEN/TS 17394-1.

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.

EN ISO 139, *Textiles - Standard atmospheres for conditioning and testing (ISO 139)*

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 <https://www.iso.org/obp>

3.1

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 subclauses 2.1 and 2.2]

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-