
**Footwear — Test methods for insoles
— Resistance to stitch tear**

*Chaussures — Méthodes d'essai applicables aux premières de
montage — Résistance au déchirement des points de couture*



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Foreword

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 216, *Footwear*.

This second edition cancels and replaces the first edition (ISO 20876:2001), which has been technically revised.

Footwear — Test methods for insoles — Resistance to stitch tear

1 Scope

This document describes a method for evaluating the ability of an insole, irrespective of the material, to hold stitches, or to take clenched metal fastenings. The method has become accepted as a general quality criterion for insole materials even where attachment is by means of adhesives.

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 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 17709, *Footwear — Sampling location, preparation and duration of conditioning of samples and test pieces*

ISO 18454, *Footwear — Standard atmospheres for conditioning and testing of footwear and components for footwear*

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:

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

3.1

resistance to stitch tear

force required to pull a loop of wire of specified dimensions through a test specimen of insole material

4 Apparatus and material

The following apparatus and material shall be used:

4.1 Drill, fitted with a twist drill bit, with diameter of 1,60 mm ± 0,01 mm.

4.2 Drilling jig, to ensure accurate spacing of 8,0 mm ± 0,2 mm between the centres of each pair of holes (see [Figure 1](#)) in the test piece.