
**Footwear — Test method for the
determination of the resistance of elastic
materials for footwear to repeated
extension — Fatigue resistance**

*Chaussures — Méthode d'essai pour la détermination de la résistance
des élastiques de chaussures à des extensions répétées — Résistance
à la fatigue*



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Foreword

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Footwear — Test method for the determination of the resistance of elastic materials for footwear to repeated extension — Fatigue resistance

1 Scope

This International Standard specifies a test method for the determination of the resistance of elastic materials for footwear, to repeated extension produced during normal walking. The test can be carried out before and after accelerated ageing. This method is applicable to any elastic material used for footwear.

2 Normative references

The following referenced documents are indispensable for the application 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 10765, *Footwear — Test method for the characterization of elastic materials — Tensile performance*

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.

3.1

elastic

tape, cord or fabric containing rubber or a similar substance allowing it to stretch and return to its original shape

NOTE Generally elastic materials are used in upper construction in the quarters or in the straps to hold the shoe on the foot.

4 Apparatus and materials

4.1 Sewing machine, with a round point needle metric size 90s or 70s, a nylon or polyester thread (approximately tex 17/3) and operating at 6 stitches/cm.

4.2 Repeated extension machine, with a minimum separation of (60 ± 10) mm, a maximum separation that is fully adjustable up to a distance equal to the minimum separation plus 150 mm, a method of applying a simple harmonic reciprocating action to increase the distance between the clamps from the minimum to the maximum separation and back again at a rate of (60 ± 5) cycles per minute and a means of recording the number of cycles.

4.3 Chamber, at (70 ± 2) °C for the accelerated ageing process.