
**Foot and leg protectors —
Requirements and test methods for
footwear component —**

**Part 2:
Non-metallic toecaps**

*Protecteurs du pied et de la jambe — Exigences et méthodes d'essais
pour les composants de chaussure —*

Partie 2: Embouts non métalliques





COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements for non-metallic toecaps	1
4.1 General.....	1
4.2 Finishing.....	2
4.3 Dimensions.....	2
4.3.1 Internal length.....	2
4.3.2 Width of flange.....	3
4.4 Impact resistance.....	3
4.5 Compression resistance.....	3
4.6 Stability against ageing and environmental influence.....	3
5 Test methods for non-metallic toecaps	3
5.1 General.....	3
5.2 Determination of dimensions.....	4
5.2.1 Determination of internal non-metallic toecap length.....	4
5.2.2 Width of flange.....	4
5.2.3 Test report.....	6
5.3 Determination of impact resistance.....	6
5.3.1 Apparatus.....	6
5.3.2 Procedure.....	9
5.3.3 Test report.....	9
5.4 Determination of compression resistance.....	10
5.4.1 Equipment.....	10
5.4.2 Procedure.....	11
5.4.3 Test report.....	11
5.5 Determination of impact resistance after environmental treatments.....	12
5.5.1 General.....	12
5.5.2 Effect of high temperature.....	12
5.5.3 Effect of low temperature.....	12
5.5.4 Effect of fuel oil.....	12
5.5.5 Test report.....	12
6 Marking	12
Bibliography	14