DIN EN ISO 22568-4:2022-03 (E)

Foot and leg protectors - Requirements and test methods for footwear components - Part 4: Non-metallic perforation resistant inserts (ISO 22568-4:2021)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Requirements for non-metallic perforation resistant inserts ... **7**
4.1 General ... 7
4.2 Resistance to perforation ... 7
4.3 Flexing resistance ... 8
4.4 Stability against ageing and environmental influence ... 8
4.5 Electrical resistance ... 8

5 Test methods for the non-metallic perforation tests ... **8**
5.1 Determination of perforation resistance ... 8
5.1.1 Method PL: with conical nail 4,5 mm diameter ... 8
5.1.2 Method PS: with conical nail 3,0 mm diameter ... 8
5.2 Determination of flexing resistance ... 8
5.2.1 Apparatus ... 8
5.2.2 Sampling ... 9
5.2.3 Test procedure ... 10
5.2.4 Results ... 10
5.2.5 Test report ... 10
5.3 Test methods for the assessment non-metallic perforation resistant inserts in critical environment ... 11
5.3.1 Sampling ... 11
5.3.2 Effect of high temperature ... 11
5.3.3 Effect of acid sweat ... 11
5.3.4 Effect of alkali sweat ... 11
5.3.5 Effect of fuel oil ... 11
5.3.6 Results ... 11
5.3.7 Test report ... 11
5.4 Determination of the electrical resistance ... 12
5.4.1 Testing procedure ... 12
5.4.2 Test report ... 12

6 Marking ... **13**

Annex A (normative) **Method PL: perforation resistance with the conical nail 4,5 mm diameter** ... **14**

Annex B (normative) **Method PS: Perforation resistance with the conical nail 3,0 mm diameter** ... **18**

Bibliography ... **23**