

DIN EN 13634:2018-03 (E)

Protective footwear for motorcycle riders - Requirements and test methods

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Basic requirements for motorcycle footwear	7
4.1	General	7
4.2	Design	7
4.2.1	Height of upper	7
4.2.2	Whole upper	10
4.3	Whole footwear	10
4.3.1	bond strength	10
4.3.2	Innocuousness	10
4.4	Uppers	10
4.4.1	pH value	10
4.4.2	Chromium VI content	10
4.4.3	Colour fastness	10
4.4.4	Impact Abrasion resistance	10
4.4.5	Impact cut resistance	12
4.5	Linings	13
4.5.1	General	13
4.5.2	Tear strength	13
4.5.3	Abrasion resistance	13
4.5.4	pH value	13
4.5.5	Chromium VI content	13
4.5.6	Colour fastness	13
4.6	Outsoles	14
4.6.1	Thickness and cleat height	14
4.6.2	Abrasion resistance	14
4.6.3	Hydrolysis	15
4.6.4	Interlayer bond strength	15
4.7	Ergonomics	15
4.8	Transverse rigidity of the whole footwear	15
4.9	Insole construction	15
4.10	Insole and insock	15
4.10.1	General	15
4.10.2	Abrasion resistance	15
4.10.3	pH value	17
4.10.4	Chromium VI content	17
5	Optional requirements	17
5.1	Impact protection to the ankle and/or part of the shin	17
5.2	Resistance to water penetration	17
5.3	Resistance to fuel oil of outsole	17
5.4	Slip resistance of outsole	17
5.5	Permeable uppers	18
5.6	Insole/Insocks, Water absorption and desorption	18

6	Test methods	18
6.1	Determination of the transverse rigidity of the footwear	18
6.1.1	Principle	18
6.1.2	Apparatus	18
6.1.3	Test piece	18
6.1.4	Preparation of the test piece	18
6.1.5	Test procedure	18
6.2	Impact energy protection of ankle and shin	19
6.2.1	Principle	19
6.2.2	Apparatus	19
6.2.3	Test piece	20
6.2.4	Zones of protection	20
6.2.5	Procedure	21
7	Marking	21
8	Wearer information and instructions for use	23
	Annex A (normative) Ergonomic and size testing	24
A.1	Principle	24
A.2	Assessors	24
A.3	Procedure for footwear size verification	24
A.4	Procedure for ergonomic evaluation	24
	Annexe ZA (informative) Relationship between this European Standard and the essential requirements of EU Directive 89/686/EEC Personal Protective Equipment aimed to be covered	26
	Bibliography	28