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Protective garments for motorcycle riders - Part 1: Test methods

Motorradfahrerschutzkleidung — Teil 1: Prüfmethoden

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English Version

Protective garments for motorcycle riders - Part 1: Test methods

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This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 162.

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European foreword

This document (prEN 17092-1:2017) has been prepared by Technical Committee CEN/TC 162 "Protective clothing including hand and arm protection and lifejackets", the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document along with EN 17092-2, EN 17092-3, EN 17092-4, EN 17092-5 and EN 17092-6, will supersede EN 13595-1:2002, EN 13595-2:2002 EN 13595-3:2002 EN 13595-4:2002.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

This standard is part of a series of standards specifying requirements for particular items of protective garments. EN 17092 comprises 6 parts:

- Part 1: Test methods
- Part 2: Heavy-duty protective garments Requirements
- Part 3: Medium-duty protective garments Requirements
- Part 4: Light-duty protective garments Requirements
- Part 5: Light-duty abrasion protection garments Requirements
- Part 6: Impact protector ensemble garments Requirements

Introduction

This European Standard is a part of a series of standards including EN 17092-2, EN 17092-3, EN 17092-4, EN 17092-5 and EN 17092-6, which describe the requirements for motorcyclists' protective garments according to the various classes of protection offered. EN 17092-1, specifies test methods to be used to test motorcyclists' protective garments to confirm that they meet the requirements of the EN 17092-2, EN 17092-3, EN 17092-4, EN 17092-5 and EN 17092-6 standards.

1 Scope

This European Standard describes some of the test methods for use with EN 17092 Protective garments for motorcycle riders (Part 2 and later parts). It does not apply to: motorcyclists' garments for motorsport competition events organized by a sanctioning body or motorcyclists' garments, such as those commonly associated with off-road motocross and similar off-road disciplines, unless said off-road garments have installed impact protection.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1621-1:2012, Motorcyclists' protective clothing against mechanical impact - Part 1: Motorcyclists' limb joint impact protectors - Requirements and test methods

EN 1621-2, Motorcyclists' protective clothing against mechanical impact - Part 2: Motorcyclists' back protectors - Requirements and test methods

prEN 1621-3, Motorcyclists' protective clothing against mechanical impact - Part 3: Motorcyclists' chest protectors - Requirements and test methods

EN 1621-4, Motorcyclists' protective clothing against mechanical impact - Part 4: Motorcyclists' inflatable protectors - Requirements and test methods

EN ISO 13688:2013, Protective clothing - General requirements (ISO 13688:2013)

EN ISO 3377-1, Leather - Physical and mechanical tests - Determination of tear load - Part 1: Single edge tear (ISO 3377-1)

EN ISO 4674-1, Rubber- or plastics-coated fabrics — Determination of tear resistance — Constant rate of tear methods

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

garment

jacket or trouser separate, one-piece or two-piece suit, impact protector ensemble clothing, and other protective motorcycle rider clothing type excluding protective motorcycle rider clothing for the head, neck, hands, or feet

3.2

waistline

line in the plane of the waist, at the level of the highest points of the iliac crests on a subject standing upright

3.3

beltline

line in a horizontal plane, at the level of the bottom seam of the waistband, at the center front of the trousers on a subject standing upright

3.4

loop restraint

mechanism whereby a loop of material attached to or a part of a garment limb passes around a digit of the hand or under the foot

4 Test samples

Test samples shall be provided for examination and testing according to Table 1.

Tests shall be performed on complete garments. If it is not possible to perform any required test using an actual test sample garment, the manufacturer shall provide a representative sample of the area of the garment required for testing. The sample shall be of equivalent materials and construction as found in the complete garment.

All removable impact protectors listed in the information notice for users shall be submitted with any garment that is submitted for testing.

In the case of garments with pockets for optional impact protectors, the manufacturer shall submit samples of all impact protector options, appropriate for the garment, as listed in the information notice for users.

Garments and samples shall be cleaned in accordance with the requirements of EN ISO 13688:2013, 5.2 prior to testing with the exception that it is not necessary to clean garments before testing where only trivial surface cleaning treatments, which are considered not to affect the performance of the garment are recommended, for example wiping with a damp sponge.

Test samples shall be conditioned in an atmosphere of (23 ± 2) °C and (50 ± 5) % relative humidity for a minimum period of 24 h before testing.

Testing shall be carried out in the conditioning environment or shall be started within 10 min of the removal of the test samples from that environment.