

Protective clothing — Gloves and arm guards protecting against cuts and stabs by hand knives —

Part 2: Gloves and arm guards made of material other than chain mail

The European Standard EN 1082-2:2000 has the status of a
British Standard

ICS 13.340.10; 13.340.40

National foreword

This British Standard is the official English language version of EN 1082-2:2000.

The UK participation in its preparation was entrusted by Technical Committee PH/3, Protective clothing, to Subcommittee PH/3/4, Clothing for protection against hand knives, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

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Summary of pages

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Vêtements de protection – Gants et protège-bras contre les
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et protège-bras en matériaux autres que la cotte de mailles

Schutzkleidung – Handschuhe und Armschützer zum
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This European Standard was approved by CEN on 17 February 2000.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This European Standard 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 European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2000, and conflicting national standards shall be withdrawn at the latest by September 2000.

This European Standard 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 standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

Chain mail gloves and chain mail, rigid plastic or metal arm guards are used in work particularly in the meat industry where a sharp pointed knife is drawn towards the user's hand holding the meat. In work where the knife is generally used to cut away from the hand, or the knives are not finely pointed, it may be appropriate for ergonomic reasons to use gloves and arm guards that are more comfortable though providing less protection than that provided by products fulfilling the requirements of EN 1082-1. This European Standard gives the requirements for such less protective products. The products provide significant protection against slashing cuts but only limited stab protection. It is important that a risk assessment exercise is carried out before these products are accepted as suitable for use in a particular job.

Attention is drawn to legislation and other standards concerning public health in the food industry and hygiene in the meat processing industries, that might apply to the use of the gloves or arm guards, and these could have implications for the acceptability of particular construction, construction materials and the cleaning methods for protective gloves, arm guards, associated straps and fasteners.

It has been assumed in the drafting of this European Standard that the execution of its provisions is entrusted to appropriately qualified and experienced people, for whose guidance it has been prepared. The apparatus described should only be used by competent persons and requires safeguards to prevent, as far as is reasonably practicable, injury to the operator and other persons.

1 Scope

This European Standard specifies requirements for the design, cut resistance, penetration resistance, and ergonomic characteristics of cut resistant gloves, arm guards and protective sleeves which are made of materials other than chain mail, rigid metal and plastics, and provide less cut and stab protection than the products specified in part 1 of this standard and are intended to be used only in work where the knife is not finely pointed or it is used only to cut away from the hand and arm.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed thereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 1082-1:1996	Protective clothing – Gloves and arm guards protecting against cuts and stabs by hand knives – Part 1: Chain mail gloves and arm guards.
prEN 1082-3:1997	Protective clothing – Gloves and arm guards protecting against cuts and stabs by hand knives – Part 3: Impact cut test for fabric, leather and other materials.
EN ISO 13997	Protective clothing – Mechanical properties – Determination of resistance to cutting by sharp objects (ISO 12997:1999).
ISO 3175:1998	Textiles – Dry cleaning and finishing.
ISO 6330	Textiles – Domestic washing and drying procedures for textile testing.
ISO 3758	Textiles – Care labelling code using symbols.

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 1082-1 and the following term and definition apply.

3.1

protective sleeve

a flexible garment covering the arm from the wrist to above the elbow. It may be self-supporting because of its elasticity or held in place by straps or other systems. Protective sleeves are normally worn inside the cuff of a glove and lightly grip the wrist

4 Requirements

4.1 Dimensions of the protective surface areas of gloves, arm guards and protective sleeves

4.1.1 General

The requirements for fabric, leather, plastic or composite gloves and arm guards shall be the same as those for chain mail gloves and chain mail or rigid arm guards given in EN 1082-1, except as listed below. Sizes and coverage are assessed according to 6.8 and annex A of this standard.

4.1.2 Gloves

The coverage provided by gloves shall be continuous and without a slit on the ulnar side of the palm.

4.1.3 Short cuff gloves

Short cuff gloves shall be designed to provide continuous protection from the finger tips to a distance at least 75 mm proximal to the wrist. The cuff shall retain this coverage when tested according to annex A.

4.1.4 Long cuff gloves

Long cuff gloves shall be designed to provide continuous protection from the finger tips to a distance less than 75 mm from the upper arm surface when the elbow is flexed at 90°, see annex B of EN 1082-1:1996. The cuff shall retain this coverage when tested according to annex A.

4.1.5 Glove sizes

Gloves shall be marked with their size based on the hand size they are designed to fit, according to Table B.1 in annex B of EN 1082-1:1996. Sizing shall be verified to annex A.

4.1.6 Flexible protective sleeves

Flexible protective sleeves shall provide continuous coverage from the wrist as defined in 3.1.2 of EN 1082-1:1996, to above the elbow.

4.1.7 Arm guard, or protective sleeve, and glove assemblies

4.1.7.1 General

The coverage provided by arm guards, protective sleeves, and arm guard, or protective sleeve, and glove assemblies shall be continuous. The coverage and absence of gaps shall be assessed in accordance with 6.4 and annex A.

4.1.7.2 Coverage with rigid arm guards

As given in 4.1.5.1 of EN 1082-1:1996.