

Australian/New Zealand Standard™

Occupational protective gloves

Part 7.2: Protection against cuts and stabs by hand knives—Gloves and arm guards made of material other than chainmail

AS/NZS 2161.7.2:2005

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee SF-023, Occupational Protective Gloves. It was approved on behalf of the Council of Standards Australia on 9 March 2005 and on behalf of the Council of Standards New Zealand on 18 March 2005.

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RECONFIRMATION

OF

AS/NZS 2161.7.2:2005

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guards made of material other than chainmail**

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NOTES

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-023, Occupational Protective Gloves.

The objective of this Standard is to provide users and manufacturers with a set of requirements for the design, cut resistance, penetration resistance, and ergonomic characteristics of cut resistant gloves, arm guards and protective sleeves made of materials other than chainmail and rigid metal.

This Standard is identical with and has been reproduced from ISO 13999-2:2003, *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*.

As this Standard is reproduced from an ISO Standard, the following applies:

- (a) Its number appears on the cover and title page while the ISO Standard number appears only on the cover.
- (b) Source text, ‘this part of ISO 13999’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

Guidance for the selection, care and use of occupational protective gloves is not covered by this Standard but is provided in AS/NZS 2161.1, *Occupational protective gloves, Part 1: Selection, care and use*.

References to international Standards should be replaced by equivalent Joint Australian/New Zealand Standards, as follows:

<i>Reference to International Standard or other publication</i>	<i>Joint Australian/New Zealand Standard</i>
ISO	AS/NZS
13999	2161
13999-1	2161.7.1
13999-3	2161.7.3

Protective clothing—Gloves and arm guards protecting against cuts and stabs by hand knives	Occupational protective gloves Part 7.1: Protection against cuts and stabs by hand knives— Chainmail gloves and arm guards
Part 1: Chain-mail gloves and arm guards	
Part 3: Impact cut test for fabric, leather and other materials	Part 7.3: Protection against cuts and stabs by hand knives—Impact cut test for fabric, leather and other materials

NOTE: Any international Standards not listed have not been adopted as Australian or Australian/New Zealand Standards.

This Standard is Part 7.2 of the following series:

AS/NZS

- 2161 Occupational protective gloves
- 2161.7.1 Part 7.1: Protection against cuts and stabs by hand knives—Chainmail gloves and arm guards
- 2161.7.2 Part 7.2: Protection against cuts and stabs by hand knives—Gloves and arm guards made of material other than chainmail
- 2161.7.3 Part 7.3 Protection against cuts and stabs by hand knives—Impact cut test for fabric, leather and other materials

The term ‘normative’ has been used in this Standard to define the application of the annex to which it applies. A ‘normative’ annex is an integral part of a Standard.

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INTRODUCTION

Chain-mail gloves and chain-mail or 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 ISO 13999-1. This part of ISO 13999 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 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 and arm guards and associated straps and fasteners.

It has been assumed in the drafting of this part of ISO 13999 that the execution of its provisions is entrusted to appropriately qualified and experienced people, for whom guidance 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.

AUSTRALIAN/NEW ZEALAND STANDARD

Occupational protective gloves

Part 7.2:

Protection against cuts and stabs by hand knives—Gloves and arm guards made of material other than chainmail

1 Scope

This part of ISO 13999 specifies requirements for the design, cut resistance, penetration resistance, and ergonomic characteristics of cut-resistant gloves, arm guards and protective sleeves made of materials other than chain mail and rigid metal and plastics. They provide less cut and stab protection than the products specified in ISO 13999-1 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

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

ISO 3175-2:1998, *Textiles — Professional care, drycleaning and wetcleaning of fabrics and garments — Part 2: Procedure for testing performance when cleaning and finishing using tetrachloroethene*

ISO 3758, *Textiles — Care labelling code using symbols*

ISO 6330:2000, *Textiles — Domestic washing and drying procedures for textile testing*

ISO 13997, *Protective clothing — Mechanical properties — Determination of resistance to cutting by sharp objects*

ISO 13999-1:1999, *Protective clothing — Gloves and arm guards protecting against cuts and stabs by hand knives — Part 1: Chain-mail gloves and arm guards*

ISO 13999-3, *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*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 13999-1 and the following apply.

3.1

protective sleeve

flexible garment covering the arm from the wrist to above the elbow

NOTE 1 It may be self-supporting because of its elasticity or held in place by straps or other systems.

NOTE 2 Protective sleeves are normally worn inside the cuff of a glove and lightly grip the wrist.