AS/NZS 2161.3:2005
EN 388:2003
Reconfirmed 2016

AS/NZS 2161.3:2005

Australian/New Zealand Standard™

Occupational protective gloves

Part 3: Protection against mechanical risks

STANDARDS AUSTRALIA

STANDARDS NEW ZEALAND
Paerewa Aotearoa

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 4 April 2005 and on behalf of the Council of Standards New Zealand on 15 April 2005.
This Standard was published on 19 May 2005.

The following are represented on Committee SF-023:

Association of Accredited Certification Bodies
Australasian Fire Authorities Council
Australian Chamber of Commerce and Industry
Department of Consumer & Employment Protection, Worksafe Division (WA)
Griffith University
Telstra Corporation Limited
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United Firefighters Union of Australia
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We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 04523.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF
AS/NZS 2161.3:2005
Occupational protective gloves
Part 3: Protection against mechanical risks

RECONFIRMATION NOTICE

Technical Committee SF-023 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

Certain documents referenced in the publication may have been amended since the original date of publication. Users are advised to ensure that they are using the latest versions of such documents as appropriate, unless advised otherwise in this Reconfirmation Notice.

Approved for reconfirmation in accordance with Standards Australia procedures for reconfirmation on 16 June 2016.

Approved for reconfirmation in New Zealand on behalf of the Standards Council of New Zealand on 5 July 2016.

The following are represented on Technical Committee SF-023:

Australian Chamber of Commerce and Industry
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Griffith University
National Safety Council of Australia
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NOTES

Australian/New Zealand Standard™

Occupational protective gloves

Part 3: Protection against mechanical risks

Originated as AS/NZS 2161.3:1998.
Second edition 2005.

Jointly published by Standards Australia, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 6694 3

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-023, Occupational Protective Gloves to supersede AS/NZS 2163.3:1998. It is identical with and has been reproduced from EN 388:2003, *Protective gloves against mechanical risk*.

The objective of Part 3 of AS/NZS 2161 is to provide users and manufacturers with requirements for gloves intended to provide protection against mechanical injury including abrasion, blade cut, puncture, tear or impact cut. The objective of this revision is to adopt the current edition of EN 388.

As this Standard is reproduced from a European Standard, the following applies:

(a) Its number appears on the cover and title page while the European Standard number appears only on the cover.

(b) In the source text, 'this European Standard' should read 'this Australian/New Zealand Standard'.

(c) A full point substitutes for a comma when referring to a decimal marker.

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

Reference to International Standard or other publication		*Joint Australian/New Zealand Standard*	
EN		AS/NZS	
420	General requirements for gloves	2161	Occupational protective gloves
		2161.2	Part 2: General requirements

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

Guidance for the selection, care and use of occupational protective gloves is given in a separate Standard, AS/NZS 2161.1, *Occupational protective gloves,* Part 1: *Selection, use and maintenance*.

In the course of considering adoption of this Standard, Committee SF-023 agreed that the reader's attention should be drawn to the following points:

(i) The issue of estimating and recording uncertainty in measurement is not addressed in this Standard. Users are encouraged to refer to '*Guide to the Expression of Uncertainty in Measurement*' issued by BIPM, IEC, IFCC, ISO, IUPAC, IUPAP and OIML.

(ii) The test temperature may not reflect conditions of end use, and so the actual performance of the glove in the workplace may differ from results obtained following this Standard..

(iii) Tolerances in tensile properties are generally ±2%.

(iv) The term 'highest peak' (Clause 6.3.5.5) is more commonly known as 'highest value'.

(iv) Caution is urged as the differences between levels of performance (see Table 1) are dependent on the precision of the measurements and may not accurately reflect conditions of end use.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the annex to which they apply. A 'normative' annex is an integral part of a Standard, whereas an 'informative' annex is only for information and guidance.

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AUSTRALIAN/NEW ZEALAND STANDARD

Occupational protective gloves

Part 3:
Protection against mechanical risks

1 Scope

This European Standard specifies requirements, test methods, marking and information to be supplied, for protective gloves against the mechanical risks of abrasion, blade cut, tear and puncture.

This standard is only applicable in conjunction with EN 420.

The test methods developed in this standard can also be applicable to arm protectors which are protective devices separate from the glove or the clothing.

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 hereafter. For dated references, subsequent amendments 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 420, *General requirements for gloves*

EN ISO 12947-1, *Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 1: Martindale abrasion testing apparatus (ISO 12947-1:1998)*

EN ISO 13997, *Protective clothing — Mechanical properties — Determination of resistance to cutting by sharp objects (ISO 13997:1999).*

3 Terms and definitions

For the purposes of this European Standard the following terms and definitions apply:

3.1
protective glove against mechanical risks
glove that provides protection against at least one of the following mechanical risks: abrasion, blade cut and puncture

NOTE Tear resistance provides information on the mechanical resistance of the glove, but is not indicative of protection against a specific risk. Whilst a high value is normally considered as better, a low value is required in case of possible entanglement with moving machinery.

3.2
glove providing a specific protection
glove that is designed to provide an area of improved protection for the whole hand or part of it

3.3
glove series
single glove style or glove type with the same palm material up to the wrist line where the only variants are size, length, left/right hand and colour

3.4
arm
part of the body between the wrist and the shoulder