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**Industrial safety gloves and
mittens**

STANDARDS AUSTRALIA



THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Bureau of Steel Manufacturers of Australia
Confederation of Australian Industry
Department of Labour and Industry (N.S.W.)
Department of Productivity
Electricity Supply Association of Australia
Health Commission of New South Wales
Metropolitan Water, Sewerage and Drainage Board
National Safety Council of Australia
Safety Institute of Australia
Telecom Australia.

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To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 75049.

AUSTRALIAN STANDARD SPECIFICATION

**INDUSTRIAL
SAFETY GLOVES AND
MITTENS**

(Excluding Electrical and Medical Gloves)

AS 2161 — 1978

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PREFACE

This standard was prepared by the Association's Committee on Industrial Safety Gloves under the authority of the Safety Standards Board, as the revision and metrication of AS Z4—1963, which it accordingly supersedes.

It covers industrial safety gloves and mittens designed to provide protection for the hands and portions of the arms, against common industrial hazards. The scope of the revised standard has been expanded and it now provides for gloves and mittens manufactured from leather, PVC, asbestos, treated wool, rubber and terry cord (loop pile).

The standard does not apply to gloves used by the medical profession or to gloves used for protection against electrical hazards.

Appendices set out various methods of test referred to in the standard, give recommendations for typical reinforcement of fabricated gloves and, in Appendix M, include a guide to the selection of industrial safety gloves and mittens for particular operational hazards.

This standard may require reference to the following standards:

- AS 1176 Methods of Test for Combustion Characteristics of Textile Materials
- AS 1863 Coated Abrasives (Technical Products)
- AS B128 Methods for the Verification of Testing Machines
- BS 3424 Methods of Test for Coated Fabrics
- BS 903 Methods of Testing Vulcanized Rubber
 - Part A2—Determination of Tensile Stress-Strain Properties
 - Part A19—Accelerated Ageing Test.

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CONTENTS

	<i>Page</i>
SECTION 1. SCOPE AND GENERAL REQUIREMENTS	
1.1 Scope	5
1.2 General Requirements	5
1.3 Definitions	5
1.4 Workmanship and Finish	6
1.5 Marking	6
SECTION 2. MATERIALS	
2.1 Scope of Section	7
2.2 General Requirements	7
2.3 Leather	7
2.4 Polyvinyl Chloride Coating Compound (PVC)	8
2.5 Impregnated Fabric (PVC Impregnated)	8
2.6 Rubber and Synthetic Elastomers	8
2.7 Asbestos Cloth	8
2.8 Cotton Swansdown	9
2.9 Canvas	9
2.10 Knitted Fabric	9
2.11 Treated Wool	9
2.12 Terry Cord (Loop Pile)	10
2.13 Insulation Materials	10
2.14 Aluminized Material	10
SECTION 3. DESIGN AND CONSTRUCTION OF FABRICATED GLOVES AND MITTENS	
3.1 Scope of Section	11
3.2 Application	11
3.3 Basic Dimensions	11
3.4 Method of Measurement	12
3.5 Construction	12
3.6 Fabricated Glove Design	12
3.7 Design of Fabricated Mittens	13
3.8 Cuff	13
SECTION 4. LEATHER GLOVES AND MITTENS	
4.1 Scope of Section	17
4.2 Materials	17
4.3 Construction	17
4.4 Seams	17
SECTION 5. PVC GLOVES	
5.1 Scope of Section	18
5.2 Materials	18
5.3 Minimum Dimensions	18
5.4 Unsupported PVC Gloves	20
5.5 Supported PVC Gloves	20

SECTION 6. IMPREGNATED FABRIC (PVC IMPREGNATED) GLOVES		
6.1	Scope of Section	22
6.2	Construction and Material	22
6.3	Test Requirements	22
SECTION 7. ASBESTOS GLOVES AND MITTENS		
7.1	Scope of Section	23
7.2	Design and Construction	23
SECTION 8. MITTENS OF TREATED WOOL		
8.1	Scope of Section	24
8.2	Design and Construction	24
SECTION 9. RUBBER GLOVES		
9.1	Scope of Section	26
9.2	Basic Dimensions	26
9.3	Minimum Thickness	28
9.4	Construction	29
9.5	Testing	30
SECTION 10. TERRY CORD (LOOP PILE) GLOVES		
10.1	Scope	32
10.2	Materials	32
10.3	Construction	32
APPENDICES		
A	Method for Determination of Grease Content of Leather	33
B	Method for Determination of Chromium Content of Leather	35
C	Method of Test for Abrasion Resistance	39
D	Method of Test for Tearing Force	41
E	Method of Test for Breaking Strength of Seams	43
F	Method for Determination of Thickness of Gloves and Mittens	45
G	Method of Test for Leakage of Supported PVC Gloves	46
H	Method of Test for Flex Cracking of PVC Gloves	48
J	Method of Test for Flaking of PVC Gloves (Gelation Test)	49
K	Method for Determination of Resistance to Chemical Penetration of Supported PVC Gloves	50
L	Typical Reinforcements for Fabricated Gloves	52
M	Guide to Selection of Industrial Safety Gloves and Mittens	53

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard Specification for INDUSTRIAL SAFETY GLOVES AND MITTENS (Excluding Electrical and Medical Gloves)

SECTION 1. SCOPE AND GENERAL REQUIREMENTS

1.1 SCOPE. This specification applies to industrial safety gloves and mittens designed to provide protection for the hands and portions of the arms against common industrial hazards. It provides for gloves and mittens to be manufactured from leather, PVC, asbestos, treated wool, rubber and terry cord (loop pile), and for one or more classes of duty.

The specification does not apply to gloves used by the medical profession or to gloves used for protection against electrical hazards.

Appendices set out various methods of test referred to in the specification, give recommendations for typical reinforcement of fabricated gloves, and include a guide to the selection of industrial safety gloves and mittens for particular operations/hazards.

1.2 APPLICATION. Industrial safety gloves and mittens shall comply with the relevant requirements of Sections 1 and 2 and, in addition, with the particular requirements in the Section appropriate to the specific type of glove or mitten, viz:

- Section 4 Leather Gloves and Mittens
- Section 5 PVC Gloves
- Section 6 Impregnated Fabric (PVC) Gloves
- Section 7 Asbestos Gloves and Mittens
- Section 8 Mittens of Treated Wool
- Section 9 Rubber Gloves
- Section 10 Terry Cord (Loop Pile) Gloves.

In addition to complying with the above requirements, fabricated gloves and mittens shall comply with the requirements of Section 3.

1.3 DEFINITIONS. For the purpose of this specification, the following definitions apply:

1.3.1 Glove — a flexible covering having separate fingers and thumb to protect the hand.

1.3.2 Mitten — a flexible covering having a common compartment for the fingers but with the thumb separate, to protect the hand.