

AS/NZS 2161.10.1:2024  
ISO 374-1:2024



Australian/New Zealand Standard™

# Occupational protective gloves

**Part 10.1: Protective gloves against dangerous chemicals and micro-organisms — Terminology and performance requirements for chemical risks (ISO 374-1:2024, IDT)**



AS/NZS 2161.10.1:2024

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee SF-053, Personal Protective Equipment and Clothing. It was approved on behalf of Standards Australia's Standards Development and Accreditation Committee on 07 November 2024 and by the New Zealand Standards Approval Board on 02 October 2024.

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The following are represented on Committee SF-053:

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- Australian Chamber of Commerce and Industry
- Australian Fashion Council
- Australian Industry Group
- Australian Institute of Health & Safety
- Australian Institute of Occupational Hygienists
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## Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-053, Personal Protective Equipment and Clothing, to supersede AS/NZS 2161.10.1:2005.

The objective of this document is to specify the requirements for protective gloves intended to protect the user against dangerous chemicals and defines terms to be used.

This document is identical with, and has been reproduced from, ISO 374-1, *Protective gloves against dangerous chemicals and microorganisms — Part 1: Terminology and performance requirements for chemical risks*.

As this document has been reproduced from an international document, a full point substitutes for a comma when referring to a decimal marker.

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The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 94, *Personal safety -- Personal protective equipment*, Subcommittee SC 13 *Protective clothing*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 162, *Protective clothing including hand and arm protection and lifejackets*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 374-1:2016), which has been technically revised. It also incorporates the Amendment ISO 374-1:2016/Amd 1:2018.

The main changes are as follows:

- reference to new standard, ISO 21420:2020 + Amd 1:2022;
- new requirement for penetration;
- new [Figure 2](#), changes in [Figures 4, 5, 6](#);
- new expression of permeation results [5.4.1.2](#);
- new [Annex A](#) with reference to ISO 6529;

A list of all parts in the ISO 374 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).