AS/NZS ISO 16976.7:2024
ISO 16976-7:2023

Australian/New Zealand Standard™

Respiratory protective devices — Human factors

Part 7: Hearing and speech

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New Zealand Institute of Safety Management
New Zealand Occupational Hygiene Society
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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-010, Occupational Respiratory Protection to supersede SA/SNZ TS ISO 16976.7:2021, *Respiratory protective devices — Human factors, Part 7: Hearing and speech*.

The objective of this document is to provide information related to the interaction between respiratory protective devices and the human body functions of hearing and speech.

This document is identical with, and has been reproduced from ISO 16976-7:2023, *Respiratory protective devices — Human factors — Part 7: Hearing and speech*.

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

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

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Full document details: AS NZS ISO 16976.7-2024

Contents

Preface ii
Foreword iv
Introduction v
1 Scope 1
2 Normative references 1
3 Terms and definitions, and abbreviated terms 1
3.1 Terms and definitions 1
3.2 Abbreviated terms 2
4 Range of hearing and speech 2
5 Measurement of sound pressure 3
6 Physiology of the ear 3
6.1 General 3
6.2 Outer ear 4
6.3 Middle ear 4
6.4 Inner ear 5
7 Hearing loss 5
7.1 Conductive hearing loss 5
7.2 Ototoxicity 5
7.3 Presbycusis 5
7.4 Noise induced hearing loss (NIHL) 5
7.5 Other types of hearing loss 6
7.6 Other effects of noise 6
7.6.1 General 6
7.6.2 Effects on the wearer 6
8 Noise exposure limits 8
8.1 Workplace exposure levels and durations 8
8.2 Peak limit value 11
9 Speech and hearing difficulties 11
Bibliography 13

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Full document details: AS NZS ISO 16976.7-2024

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).

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).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, 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 www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 94, *Personal safety — Personal protective equipment*, Subcommittee SC 15, *Respiratory protective devices*.

This first edition of ISO 16976-7 cancels and replaces the second edition (ISO/TS 16976-7:2019), which has been technically revised.

The main changes as follows:

— requirements more specified.

A list of all parts in the ISO 16976 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.

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Introduction

For an appropriate design, selection and use of respiratory protective devices, basic physiological demands of the user should be considered. The function of a respiratory protective device, the way it is designed and used, and the properties of its material can affect communications: either speech or hearing or both.

This document belongs to a series of documents providing basic physiological and anthropometric data on humans. It contains information about hearing and speech associated with wearing respiratory protective devices.

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