SA/SNZ TS ISO 16976.1:2021
ISO/TS 16976-1:2015

Technical Specification

Respiratory protective devices — Human factors

Part 1: Metabolic rates and respiratory flow rates

SA/SNZ TS ISO 16976.1:2021

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The following are represented on Committee SF-010:

Association of Accredited Certification Bodies, Australia
Australasian Fire and Emergency Service Authorities Council
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Australian Institute of Health & Safety
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Australian Institute of Petroleum
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Joint Accreditation System of Australia and New Zealand
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Preface

This Technical Specification was prepared by the Joint Standards Australia/Standards New Zealand Committee SF-010, Occupational Respiratory Protection, to supersede SA TS ISO 16976.1:2015.

The objective of this document is to provide information on factors related to human anthropometry, physiology, ergonomics, and performance for the preparation of standards for performance requirements, testing, and use of respiratory protective devices.

This document contains information related to respiratory and metabolic responses to rest and work at various intensities. Information is provided for the following:

(a) Metabolic rates associated with various intensities of work.

(b) Oxygen consumption as a function of metabolic rate and minute ventilation for persons representing three body sizes.

(c) Peak inspiratory flow rates during conditions of speech and no speech for persons representing three body sizes as a function of metabolic rates.

The information contained within this document represents data for healthy adult men and women of approximately 30 years of age, but is applicable for the age range of the general population.

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