
**Respiratory protective devices —
Performance requirements —**

**Part 4:
Requirements for supplied
breathable gas RPD**

*Appareils de protection respiratoire — Exigences de performances —
Partie 4: Exigences pour les équipements de protection respiratoire
alimentés en gaz respirable*

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

A list of all parts in the ISO 17420 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.

Introduction

This document describes basic requirements for supplied breathable gas respiratory protective devices (RPD) and its elements and components.

Requirements for RPD used in environments for special applications are given in the relevant parts of the ISO 17420 series.

Some test methods are described. For other test methods references are given to the ISO 16900 series "Methods of test and test equipment" or other test methods not developed by ISO/TC 94/SC 15.

[Annex A](#) gives information about reliability.

[Annex B](#) features an example of a FMEA (Failure Mode and Effects Analysis).

[Annex C](#) gives the test schedules including any pre-conditioning and number of samples.

[Annex D](#) provides information for normalisation of test results.

The sequence of testing follows the principle to minimize the necessary number of samples by carrying out destructive tests at the end. It also includes for safety reason that tests with test subjects are only carried out after the test samples have shown their safe performance in other tests.

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