PD ISO/TS 16976-7:2013

BSI Standards Publication

Respiratory protective devices — Human factors —

Part 7: Hearing and speech

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National foreword

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A list of organizations represented on this committee can be obtained on request to its secretary.

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Foreword

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The committee responsible for this document is ISO/TC 94, *Personal safety — Protective clothing and equipment*, Subcommittee SC 15, *Respiratory protective devices*.

ISO/TS 16976 consists of the following parts, under the general title *Respiratory protective devices — Human factors*:

— *Part 1: Metabolic rates and respiratory flow rates*

— *Part 2: Anthropometrics*

— *Part 3: Physiological responses and limitations of oxygen and limitations of carbon dioxide in the breathing environment*

— *Part 4: Work of breathing and breathing resistance: Physiologically based limits*

— *Part 5: Thermal effects*

— *Part 7: Hearing and speech*

— *Part 8: Ergonomic factors*

The following part is under preparation:

— *Part 6: Psycho-physiological effects*

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Introduction

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

This part of ISO/TS 16976 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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