TECHNICAL SPECIFICATION

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Validation method for fire gas analysis —

Part 3: **Considerations related to interlaboratory trials**

Méthode de validation pour l'analyse des effluents du feu —
Partie 3: Considerations relatives aux essais inter laboratoires
avec les analyses chimiques des effluents du feu

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Foreword

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This document was prepared by Technical Committee ISO/TC 92, *Fire safety*, Subcommittee SC 3, *Fire threat to people and environment*.

A list of all parts in the ISO 12828 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

The reduction of human tenability from fire effluent has long been recognized as a major cause of injury and death in fire. The composition and concentration of the effluent from a large fire are also clearly key factors in determining the potential for harm to the environment. The harmful components of fire effluent can be determined from both large-and small-scale tests of materials and finished products. Equations have been developed for quantifying the effects of the effluent components for example to estimate the available safe escape time (ASET)^[1]. Related documents are also being developed in ISO/TC 92/SC 3 which deal with environmental threats from fire effluent.

These advances in fire science and fire safety engineering have led to an increasing demand for quantitative measurements of the chemical components of the fire effluent. Characterizing these measurements is described in ISO 12828-2. Comparing results from one laboratory to another and giving a global confidence in any measurement technique, independently from the user and the conditions of use, are described in this document.

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