



National Standards Authority of Ireland

IRISH STANDARD

I.S. CEN/TS 15279:2006

ICS 13.100

**WORKPLACE EXPOSURE - MEASUREMENT
OF DERMAL EXPOSURE - PRINCIPLES AND
METHODS**

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TECHNICAL SPECIFICATION
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CEN/TS 15279

March 2006

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English Version

**Workplace exposure - Measurement of dermal exposure -
Principles and methods**

Exposition sur les lieux de travail - Mesurage de l'exposition
cutanée - Principes et méthodes

Exposition am Arbeitsplatz - Messung der Hautbelastung -
Grundsätze und Verfahren

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Foreword

This Technical Specification (CEN/TS 15279:2006) has been prepared by Technical Committee CEN/TC 137 “Assessment of workplace exposure to chemical and biological agents”, the secretariat of which is held by DIN.

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Introduction

Dermal exposure assessment explores the dynamic interaction between environmental contaminants and the skin. In contrast to inhalation exposure assessment, the assessment of dermal exposure remained a nascent field of scientific research and applied occupational hygiene for most of the twentieth century, although multiple fatalities and occupational skin diseases due to dermal exposure have been described in literature.

During the last decade, dermal exposure has received more attention, and one of the important results was the development of a conceptual model for dermal exposure (see [1]). The model systematically describes the transport of contaminant mass from exposure sources to the surface of the skin. The model provides a structure for evaluating dermal exposure both qualitatively and quantitatively.

The purpose of evaluating dermal exposure can differ substantially, as exposure analysis (to give guidance to control), risk assessment, and evaluation of exposure control can all be objectives to undertake assessments. In order to give guidance and to harmonise measurements, requirements and test methods for measurement of dermal exposure are proposed.

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