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Wheelchair seating —

Part 11:

Determination of perspiration dissipation characteristics of seat cushions intended to manage tissue integrity

Sièges de fauteuils roulants —

*Partie 11: Détermination des caractéristiques de dissipation de la
transpiration des coussins de siège censés gérer l'intégrité du tissu*



Reference number
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The committee responsible for this document is ISO/TC 173, *Assistive products for persons with disability*, Subcommittee SC 1, *Wheelchairs*.

ISO 16840 consists of the following parts, under the general title *Wheelchair seating*:

- *Part 1: Vocabulary, reference axis convention and measures for body segments, posture and postural support surfaces*
- *Part 2: Determination of physical and mechanical characteristics of devices intended to manage tissue integrity — Seat cushions*
- *Part 3: Determination of static, impact and repetitive load strengths for postural support devices*
- *Part 4: Seating systems for use in motor vehicles*
- *Part 6: Simulated use and determination of the changes in properties — Seat cushions*
- *Part 10: Resistance to ignition of non-integrated seat and back support cushions — Requirements and test methods*
- *Part 11: Determination of perspiration dissipation characteristics of seat cushions intended to manage tissue integrity [Technical Specification]*

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Introduction

Dissipating perspiration and moisture on seat cushions is important to prevent pressure ulcers, tissue maceration and for comfortable sitting. This part of ISO 16840 specifies a test method for the measurement of the perspiration dissipating characteristics of wheelchair cushions under test conditions that simulate body loading on support surfaces with flat and contoured profiles. The test method is intended to be applicable to a wide variety of seat cushions that are used across the world.

This part of ISO 16840 specifies apparatus to measure dissipation characteristics (of perspiration) of seat cushions and the approach to be employed in measuring these characteristics. It is the intention of ISO/TC 173/SC 1 to further evaluate the outcomes of this test method and their clinical implications with the aim of developing an International Standard on this topic.