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**Urine-absorbing aids for incontinence —
Test methods for characterizing
polymer-based absorbent materials —**

**Part 11:
Determination of content of respirable
particles**

*Aides pour absorption d'urine — Méthodes d'essai pour caractériser les
matériaux absorbants à base de polymères —*

Partie 11: Détermination de la teneur en particules respirables



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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 17190 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 17190-11 was prepared by Technical Committee ISO/TC 173, *Technical systems and aids for disabled or handicapped persons*, Subcommittee SC 3, *Aids for ostomy and incontinence*.

ISO 17190 consists of the following parts, under the general title *Urine-absorbing aids for incontinence — Test methods for characterizing polymer-based absorbent materials*:

- *Part 1: Determination of pH*
- *Part 2: Determination of amount of residual monomers*
- *Part 3: Determination of particle size distribution by sieve fractionation*
- *Part 4: Determination of moisture content by mass loss upon heating*
- *Part 5: Gravimetric determination of free swell capacity in saline solution*
- *Part 6: Gravimetric determination of fluid retention capacity in saline solution after centrifugation*
- *Part 7: Gravimetric determination of absorption under pressure*
- *Part 8: Gravimetric determination of flowrate*
- *Part 9: Gravimetric determination of density*
- *Part 10: Determination of extractable polymer content by potentiometric titration*
- *Part 11: Determination of content of respirable particles*

ISO 17190 is intended to be used in conjunction with ISO 17191, *Urine-absorbing aids for incontinence — Airborne polyacrylate superabsorbent material in the workplace — Determination of the content in respirable dust by sodium atomic absorption spectrometry*.

Annex A of this part of ISO 17190 is given for information only.

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Introduction

ISO 17190 consists of a series of test methods originally developed by *European Disposables and Nonwovens Association (EDANA)*. These test methods have been incorporated without technical changes into one International Standard consisting of eleven parts.

These test methods have been in practical use for several years, and have proven to be reliable with respect to common criteria of quality of test methods (validity, repeatability, etc.). They are applicable to polyacrylate superabsorbent materials, which occur in hygiene products, including urine-absorbing aids for incontinent persons. The test methods are addressed to the *material* exclusively. They are not intended to be used, and are not applicable for use with finished manufactured urine-absorbing aids.