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## Water-absorbent polyacrylate in urine absorbing products — Requirements

*Polyacrylate hydrophile dans les produits pour absorption d'urine —  
Exigences*



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CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 173, *Assistive products*, Subcommittee SC 3, *Aids for ostomy and incontinence*.

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](http://www.iso.org/members.html).

## Introduction

This document is based on JIS S0251, developed by JHPIA (Japan Hygiene Products Industry Association) and JASPIA (Japan Superabsorbent Polymers Industry Association). It refers to methods that have been in use for several years to characterize the safety and performance of water-absorbent polyacrylate in urine absorbing products.

Product type names of absorbent incontinence products for urine and/or faeces are found in ISO 22748.



# Water-absorbent polyacrylate in urine absorbing products — Requirements

## 1 Scope

This document specifies requirements for water-absorbent crosslinked polyacrylate in urine absorbing products.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 17190-1, *Urine-absorbing aids for incontinence — Polyacrylate superabsorbent powders — Part 1: Test method for determination of pH*

ISO 17190-2, *Urine-absorbing aids for incontinence — Polyacrylate superabsorbent powders — Part 2: Test method for determination of the amount of residual acrylate monomers*

ISO 17190-3, *Urine-absorbing aids for incontinence — Polyacrylate superabsorbent powders — Part 3: Test method for determination of the particle size distribution by sieve fractionation*

ISO 17190-4, *Urine-absorbing aids for incontinence — Polyacrylate superabsorbent powders — Part 4: Test method for estimation of the moisture content as weight loss upon heating*

ISO 17190-6, *Urine-absorbing aids for incontinence — Polyacrylate superabsorbent powders — Part 6: Test method for determination of the fluid retention capacity in saline solution by gravimetric measurement following centrifugation*

ISO 17190-9, *Urine-absorbing aids for incontinence — Polyacrylate superabsorbent powders — Part 9: Test method for gravimetric determination of flow rate and bulk density*

The Japanese Pharmacopoeia 1.07 Heavy Metals Limit Test, Method 2

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

### 3.1

#### **water-absorbent polyacrylate**

powdered or fibrous resin comprising of polyacrylate that can absorb and retain water and/or aqueous solutions 10 times to 1 000 times its own weight

### 3.2

#### **heavy metal**

metallic inclusions that is darkened with sodium sulphide test solution in acidic solution

Note 1 to entry: The quantity of heavy metals is expressed in terms of the quantity of lead (Pb).