INTERNATIONAL STANDARD



First edition

Water-absorbent polyacrylate in urine absorbing products — Requirements

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO/PRF 24669 https://standards.iteh.ai/catalog/standards/sist/60e5611f-ed57-4da6-bffd-2315fbe4923b/iso-prf-24669

PROOF/ÉPREUVE



Reference number ISO 24669:2021(E)

iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO/PRF 24669 https://standards.iteh.ai/catalog/standards/sist/60e5611f-ed57-4da6-bffd-2315fbe4923b/iso-prf-24669



COPYRIGHT PROTECTED DOCUMENT

© ISO 2021

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Page

Contents

Forew	ordiv
Introd	luctionv
1	Scope 1
2	Normative references 1
3	Terms and definitions1
4	Requirements
	4.1 Pass criteria 2
	4.2 Constituent
5	Product storage 2
6	Information provided by the supplier2
Biblio	graphy

iTeh STANDARD PREVIEW (standards.iteh.ai)

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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.

This document was prepared by Technical Committee ISO/TC 173, *Assistive products*, Subcommittee SC 3, *Aids for ostomy and incontinence*. https://standards.iteh.ai/catalog/standards/sist/60e5611Fed57-4da6-bffd-

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 <u>www.iso.org/members.html</u>.

Introduction

This document is based on JIS S0251, developed by JHPIA (Japan Hygiene Product and Industrial Association) and JASPIA (Japan Superabsorbent Polymers Industrial 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.

iTeh STANDARD PREVIEW (standards.iteh.ai)

iTeh STANDARD PREVIEW (standards.iteh.ai)

Water-absorbent polyacrylate in urine absorbing products — Requirements —

Part : **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 incontinences. 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 terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://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).

4 Requirements

4.1 Pass criteria

The pass criteria for a range of test methods for water-absorbent polyacrylate used in urine absorbing products shall be in accordance with <u>Table 1</u>.

g/g		
6/6]≧0,0	ISO 17190-6
mg/kg	≦1 000	ISO 17190-2
	4,5 to 8,0	ISO 17190-1
%	≦20,0	ISO 17190-4
% iTeh STA	≦1,0 % particles greater than 850μm ≦1,0 % particles smaller than E 45μm	ISO 17190-3
g/ml	0,30 to 1,00	ISO 17190-9
mg/kg https://standards.iteh.ai/	≤ 20 <u>ISO/PRF 24669</u> catalog/standards/sist/60e5611f-ed57-4da	The Japanese Pharmaco- poeia 1.07 Heavy Metals Limit Test, Method 2
	% % iTeh STA g/ml (sta mg/kg ttps://standards.iteh.ai/	$\begin{array}{r llllllllllllllllllllllllllllllllllll$

4.2 Constituent

Acrylamide shall not be used or added in manufacturing of water-absorbent polyacrylate.

5 Product storage

The product shall be packed in a closed bag and stored indoors and out of direct sunlight.

6 Information provided by the supplier

Information provided for the identification of water-absorbent polyacrylate for urine absorbent products should include at least the following:

- a) product name;
- b) confirmation that the product conforms with this document, i.e. ISO 24669;
- c) manufacturer name and/or abbreviation;
- d) information that can uniquely identify the product batch.

This information should be included in any paperwork relating to the product batch, including product labels, packaging, certificates of analysis, and product invoices.

Bibliography

- [1] ISO 22748, Absorbent incontinence products for urine and/or faeces Product type names and illustrations
- [2] ISO/TR 17276, Cosmetics Analytical approach for screening and quantification methods for heavy metals in cosmetics
- [3] JIS S0251, (Japanese Industrial Standards S0251) Water-absorbent polyacrylate for urine absorbing products

iTeh STANDARD PREVIEW (standards.iteh.ai)

iTeh STANDARD PREVIEW (standards.iteh.ai)