

Translated and Published by Japanese Standards Association

JIS K 0307: 2008

(JHPIA/JSA)

Urine-absorbing aids for incontinence—Measurement of airborne respirable polyacrylate superabsorbent materials—Determination of dust in collection cassettes by sodium atomic absorption spectrometry

ICS 11.180; 71.040.50

Reference number: JIS K 0307: 2008 (E)

K 0307:2008

Date of Establishment: 2008-05-20

Date of Public Notice in Official Gazette: 2008-05-20

Investigated by: Japanese Industrial Standards Committee

Standards Board

Technical Committee on Environment and

Recycling Policy

JIS K 0307:2008, First English edition published in 2008-09

Translated and published by: Japanese Standards Association 4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

© JSA 2008

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

# Contents

	Page
Intr	oduction1
1	Scope1
2	Normative references
3	Principle2
4	Reagents2
5	Apparatus3
6 6.1 6.2	Procedure
7	Calculation ————————————————————————————————————
8	Test report
Annex A (normative) ISO type cassette	
Ann	ex JA (informative) Comparison table between JIS and corresponding International Standard17

#### **Foreword**

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Japan Hygiene Products Industry Association (JHPIA)/Japanese Standards Association (JSA) with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This **JIS** document is protected by the Copyright Law.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

Urine-absorbing aids for incontinence—
Measurement of airborne respirable
polyacrylate superabsorbent materials—
Determination of dust in collection
cassettes by sodium atomic absorption
spectrometry

JIS K 0307:2008

#### Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 17191** published in 2004 with some modifications of the technical contents.

Major modifications of **ISO 17191** are such that the description of sampling method in the personal exposure measurement method (hereafter referred to as "personal method") is added and the sample collecting devices having the performance equivalent to those specified in **ISO** is made to be usable.

The portions given dotted underlines are the matters in which the contents of the original International Standard have been modified. A list of modifications with the explanations is given in Annex JA.

### 1 Scope

This Standard specifies the personal method for the determination of polyacrylate superabsorbent material powders (hereafter referred to as "PA dust") in airborne dust by measuring sodium using the atomic absorption spectrometry. PA dust sample shall be collected in polystyrene acrylonitrile air-monitoring cassettes with polytetrafluoroethylene filters and porous plastic backing pads. This method is applicable to the determination of PA dust sample collected in the range of 0.2  $\mu$ g to 60  $\mu$ g (detection limit: 0.2  $\mu$ g).

Note that this test method is applicable only to the measurement of PA dust amount during handling operation of polyacrylate superabsorbent materials, and does not apply to the specification of the product which utilizes the polyacrylate superabsorbent materials and the superabsorbent materials.

NOTE: The International Standard corresponding to this Standard is as follows.

ISO 17191:2004 Urine-absorbing aids for incontinence—Measurement of airborne respirable polyacrylate superabsorbent materials—Determination of dust in collection cassettes by sodium atomic absorption spectrometry

(MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For the standard with the indication of year,