

JIS

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS L 1030-4-2 : 2023

(JCFA/JSA)

Textiles — Qualitative and quantitative analysis of some cellulose fibres (lyocell, cupro) and their blends — Part 4-2: Blend quantification using light microscopy method

ICS 59.060.01

Reference number : JIS L 1030-4-2 : 2023 (E)

PROTECTED BY COPYRIGHT

15 S

L 1030-4-2 : 2023

Date of Establishment: 2023-01-20

Date of Public Notice in Official Gazette: 2023-01-20

Investigated by: Japanese Industrial Standards Committee

Standards Board for ISO area

Technical Committee on Consumer Life Products

JIS L 1030-4-2 : 2023, First English edition published in 2024-06

Translated and published by: Japanese Standards Association
Mita Avanti, 3-11-28, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

© JSA 2024

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

HN

PROTECTED BY COPYRIGHT

Contents

	Page
Introduction	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Principle	2
5 Reagents	2
6 Apparatus and materials	3
7 Test methods	3
7.1 Preparation of sample	3
7.2 Prior identification	3
7.3 Decolouring	3
7.4 Pre-treatment for re-dyeing	3
7.5 Re-dyeing	4
7.6 Measurement of fibres	4
8 Accuracy	5
9 Test report	5
Annex A (informative) Observation of fibres by re-dyeing method	6
Annex B (informative) Determination of re-dyeing temperature	9
Annex C (informative) Interlaboratory test results	10
Annex JA (informative) Comparison table between JIS and corresponding International Standard	22

Foreword

This Japanese Industrial Standard has been established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal for establishment of Japanese Industrial Standard submitted by Japan Chemical Fibers Association (JCFA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act.

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

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

Textiles — Qualitative and quantitative analysis of some cellulose fibres (lyocell, cupro) and their blends — Part 4-2: Blend quantification using light microscopy method

Introduction

This Japanese Industrial Standard has been prepared based on ISO 21915-2 : 2020, Edition 1, with some modifications of the technical contents to reflect the local conditions in Japan.

The dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the quantitative analysis of cupro and lyocell mixtures using the microscopical analysis as described in JIS L 1030-2 after re-dyeing cupro and lyocell mixtures.

This testing method is applied only for cupro and lyocell, or their blends. If other fibres such as cotton and rayon are present, they shall be removed by the method specified in JIS L 1030-1 or JIS L 1030-2 before determination according to this Standard.

This method is not applicable to fibres of which the surface has been damaged during chemical or physical processing.

WARNING The reagents used in this Standard are highly toxic and generate mist that may corrode skin, mucous membranes, metals, etc.; they should therefore be used in appropriate protective facilities or equipment.

NOTE The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 21915-2 : 2020 *Textiles — Qualitative and quantitative analysis of some cellulose fibres (lyocell, cupro) and their blends — Part 2 : Blend quantification using light microscopy method* (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 21-1.

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS K 0050 *General rules for chemical analysis*