SLOVENSKI STANDARD
SIST EN ISO 20705:2020

01-marec-2020

Tekstilije - Kvantitativna mikroskopska analiza - Splošna načela preskušanja (ISO 20705:2019)

Textiles - Quantitative microscopical analysis - General principles of testing (ISO 20705:2019)

Textilien - Quantitative mikroskopische Analyse - Allgemeine Prüfungsgrundsätze (ISO 20705:2019)

Textiles - Analyse quantitative par microscopie - Principes généraux des essais (ISO 20705:2019)

Ta slovenski standard je istoveten z: **EN ISO 20705:2020**

ICS:

59.080.01	Tekstilije na splošno	Textiles in general

SIST EN ISO 20705:2020 **en,fr,de**

EUROPEAN STANDARD

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EUROPÄISCHE NORM

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ICS 59.060.01

English Version

Textiles - Quantitative microscopical analysis - General principles of testing (ISO 20705:2019)

Textiles - Analyse quantitative par microscopie - Principes généraux des essais (ISO 20705:2019)

Textilien - Quantitative mikroskopische Analyse - Allgemeine Prüfungsgrundsätze (ISO 20705:2019)

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Contents

Page

European foreword

This document (EN ISO 20705:2020) has been prepared by Technical Committee ISO/TC 38 "Textiles" in collaboration with Technical Committee CEN/TC 248 “Textiles and textile products” the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2020, and conflicting national standards shall be withdrawn at the latest by July 2020.

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The text of ISO 20705:2019 has been approved by CEN as EN ISO 20705:2020 without any modification.

INTERNATIONAL STANDARD

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Contents

Page

Foreword

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This document was prepared by Technical Committee ISO/TC 38, *Textiles*.

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.

Introduction

This document is used for the quantitative analysis of textiles containing mixtures of fibres which cannot be separated readily by mechanical methods or by chemical methods, as described in the different parts of ISO 1833.

The quantitative microscopical analysis rely on the ability of a fibre analyst to identify and count, by means of a microscope [light microscope (LM) or scanning electron microscope (SEM)], the relative number of fibres of each type in a prepared test specimen (based on fibre apparent diameter of a longitudinal view or fibre section area of a cross view, depending on the fibre types).

Fibre counts lead to the calculation of the percentage in the mixture of the test specimen by number of fibres (based on fibre apparent diameter or fibre section area) and by their respective density. And then, the calculation of the fibre percentage by mass of the laboratory sample is carried out in relation to its structure (loose fibres, yarns, woven fabrics, knitted fabric, etc.).