

## **Para-aramid fibre filament yarns - Part 2: Method of test and general specifications**

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test and general specifications

**EESTI STANDARDI EESSÖNA****NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 13003-2:2001 sisaldb Euroopa standardi EN 13003-2:1999 ingliskeelset teksti.	This Estonian standard EVS-EN 13003-2:2001 consists of the English text of the European standard EN 13003-2:1999.
Käesolev dokument on jõustatud 18.06.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 18.06.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kätesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

<b>Käsitlusala:</b> This standard applies to high performance para-aramid fibre filament yarns as defined in EN material standards. The para-aramid fibre filament yarns are for the reinforcement of polymer composites in order to increase the mechanical properties.	<b>Scope:</b> This standard applies to high performance para-aramid fibre filament yarns as defined in EN material standards. The para-aramid fibre filament yarns are for the reinforcement of polymer composites in order to increase the mechanical properties.
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**ICS 59.100.30****Võtmesõnad:**

**English version**

**Para-aramid fibre filament yarns**  
Part 2: Methods of test and general specifications

Fils en fibre de para-aramide –  
Partie 2: Méthodes d'essai et  
spécifications générales

Para-Aramidfaser-Filamentgarne –  
Teil 2: Prüfverfahren und allgemeine  
technische Lieferbedingungen

This European Standard was approved by CEN on 1999-03-04.

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

**Central Secretariat: rue de Stassart 36, B-1050 Brussels**

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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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 October 1999, and conflicting national standards shall be withdrawn at the latest by October 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

EN 13003 consists of the following parts, under the general title "*Para-aramid fibre filament yarns*" :

- *Part 1 : Designation*
- *Part 2 : Methods of test and general specifications*
- *Part 3 : Technical specifications*

## 1 Scope

This part 2 of EN 13003 applies to high performance para-aramid fibre filament yarns and defines the methods of test which are to be used for the determination of the properties required for the designation and the specifications which are given respectively in the parts 1 and 3.

This part 2 defines also the general requirements which apply to the specifications for para-aramid fibre filament yarns as listed in the part 3 of the present standard.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

prEN 12562, *Textiles - Para-aramid multifilament yarns - Methods of test*.

EN 13003-1, *Para-aramid fibre filament yarns - Part 1 : Designation*.

EN 13003-3, *Para-aramid fibre filament yarns - Part 3 : Technical specifications*.

EN ISO 1886, *Reinforcement fibres - Sampling plans applicable to received batches (1886:1990)*.

EN ISO 1889, *Reinforcement yarns - Determination of the linear density (ISO 1889:1997)*.

EN ISO 1890, *Reinforcement yarns - Determination of twist (ISO 1890:1997)*.

EN ISO 2062, *Textiles - Yarns from packages - Determination of single-end breaking force and elongation at break (ISO 2062:1993)*.

EN ISO 3344, *Reinforcement yarns - Determination of moisture content (ISO 3344:1997)*.

EN ISO 10548, *Carbon fibre - Determination of size content (ISO 10548:1994)*.

ISO 472, *Plastics – Vocabulary*.

ISO 2859-1, *Sampling procedures for inspection by attributes- Part 1 : Sampling plans indexed by acceptable quality levels (AQL) for lot-by-lot inspection*.

ISO 10119, *Carbon fibre - Determination of density*.

prEN ISO 10618, *Carbon fibre - Determination of tensile properties of resin-impregnated yarns (ISO/DIS 10618:1994)*.

## 3 Definitions

For the purpose of this European Standard, the following definitions apply :

### 3.1

#### **qualification testing**

evaluation of one or several successive lots of given product to demonstrate that the product meets the requirements of the applicable specification

### 3.2

#### **acceptance testing**

evaluation of a received lot of a given product to demonstrate that lot fulfils the requirements of the applicable specification