

Para-aramid fibre filament yarns - Part 3: Technical specifications

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13003-3:2001 sisaldab Euroopa standardi EN 13003-3:1999 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.06.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13003-3:2001 consists of the English text of the European standard EN 13003-3:1999.</p> <p>This document is endorsed on 18.06.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This standard applies to high performance para-aramid fibre filament yarns and provides the classification and the technical requirements with tolerances for the different properties of these yarns.</p>	<p>Scope:</p> <p>This standard applies to high performance para-aramid fibre filament yarns and provides the classification and the technical requirements with tolerances for the different properties of these yarns.</p>
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ICS 59.100.30

Võtmesõnad:

English version

Para-aramid fibre filament yarns

Part 3: Technical specifications

Fils en fibre de para-aramide –
Partie 3: Spécifications techniques

Para-Aramidfaser-Filamentgarne –
Teil 3: 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.

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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 standard applies to high performance para-aramid fibre filament yarns and provides the classification and the technical requirements with tolerances for the different properties of these yarns.

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 13003-2:1999, *Para-aramid fibre filament yarns - Part 2 : Methods of test and general specifications..*

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 10119, *Carbon fibre - Determination of density*.

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

3 Classification

The para-aramid fibre filament yarns which are described below are manufactured according to a wet spinning process using a PPTA (polyphenyleneterephthalamide) solution.

According to the definitions made in EN 13003-1 para-aramid fibre filament yarns for composite applications can be divided into two different categories :

- HM high modulus type ;
- TM tailor-made modulus type.

Within these categories yarns with the following classes of linear densities are used for the reinforcement of polymer composites.