# SLOVENSKI STANDARD
# SIST EN ISO 13002:2000

**01-maj-2000**

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**Ogljikova vlakna - Sistem oznaḷevanja za vlakneno prejo (ISO 13002:1998)**

Carbon fibre - Designation system for filament yarns (ISO 13002:1998)

Kohlenstoffasern - Bezeichnungssystem für Filamentgarne (ISO 13002:1998)

Fibres de carbone - Systeme de désignation des fils continus (ISO 13002:1998)



**Ta slovenski standard je istoveten z:** **EN ISO 13002:1998**

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**ICS:**

59.100.20 Ogljikovi materiali Carbon materials

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# EUROPEAN STANDARD
# NORME EUROPÉENNE
# EUROPÄISCHE NORM

**EN ISO 13002**

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ICS 59.100.20

Descriptors: see ISO document

English version

## Carbon fibre - Designation system for filament yarns (ISO 13002:1998)

Fibres de carbone - Système de désignation des fils continus (ISO 13002:1998)

Kohlenstoffasern - Bezeichnungssystem für Filamentgarne (ISO 13002:1998)

This European Standard was approved by CEN on 15 November 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. 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.

This European Standard exists 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.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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



Ref. No. EN ISO 13002:1998 E

## Foreword

The text of the International Standard ISO 13002:1998 has been prepared by Technical Committee ISO/TC 61 "Plastics" in collaboration with 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 May 1999, and conflicting national standards shall be withdrawn at the latest by May 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.

### Endorsement notice

The text of the International Standard ISO 13002:1998 was approved by CEN as a European Standard without any modification.

NOTE: Normative references to International Standards are listed in annex ZA (normative).

**Annex ZA** (normative)
**Normative references to international publications with their relevant European publications**

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.

| Publication | Year | Title | EN | Year |
|---|---|---|---|---|
| ISO 1889 | 1997 | Reinforcement yarns - Determination of linear density | EN ISO 1889 | 1997 |

INTERNATIONAL STANDARD

**ISO 13002**

First edition
1998-11-15

# Carbon fibre — Designation system for filament yarns

*Fibres de carbone — Système de désignation des fils continus*



Reference number
ISO 13002:1998(E)

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 13002 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 13, *Composites and reinforcement fibres*.





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# Carbon fibre — Designation system for filament yarns

## 1 Scope

**1.1** This International Standard establishes a system of designation for filament yarns of carbon fibre which may be used as the basis for specifications.

**1.2** This designation system is applicable to filament yarns used for the reinforcement of polymer composites.

It does not apply to discontinuous fibre products pyrolized in the form of staple yarns, woven fabrics, braids, knits, mats, etc.

**1.3** The types of filament yarns are differentiated from each other by a classification system based on appropriate levels of the designatory properties:



a) tensile modulus of elasticity;

b) tensile strength;



c) linear density.

**1.4** It is not intended to imply that materials having the same designation give the same performance. This International Standard does not provide engineering data, performance data or data on processing conditions which may be required to specify a material for a particular application and/or method of processing.

**1.5** In order to specify a filament yarn for a particular application or to ensure reproducible processing, additional requirements may be given in data block 3 (see clause 3).

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 1889:1997, *Reinforcement yarns — Determination of linear density.*

ISO 10618:—[1)], *Carbon fibre — Determination of tensile properties of resin-impregnated yarns.*

1) To be published.