SLOVENSKI STANDARD
SIST EN ISO 1890:1999

01-maj-1999

Preje za za ojaļ enje ï Doloļ evanje suļ nosti (ISO 1890:1997)

Reinforcement yarns - Determination of twist (ISO 1890:1997)

Verstärkungsgarne - Bestimmung der Drehungszahl (ISO 1890:1997)

Fils de renfort - Détermination de la torsion (ISO 1890:1997)

Ta slovenski standard je istoveten z: **EN ISO 1890:1997**

ICS:

59.100.01	Materiali za ojaļ itev kompozitov na sploġno	Materials for the reinforcement of composites in general

SIST EN ISO 1890:1999 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 1890

May 1997

ICS 83.120

Descriptors: see ISO document

English version

Reinforcement yarns - Determination of twist (ISO 1890:1997)

Fils de renfort - Détermination de la torsion (ISO 1890:1997)

Verstärkungsgarne - Bestimmung der Drehungszahl (ISO 1890:1997)

This European Standard was approved by CEN on 1997-05-10. 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.

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.

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.

CEN

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

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

Corrected 1997-06-19

Foreword

The text of the International Standard ISO 1890:1997 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of an identical text or by endorsement, at the latest by November 1997, and conflicting national standards shall be withdrawn at the latest by November 1997.

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 1890:1997 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 1890

Third edition
1997-05-15

Reinforcement yarns — Determination of twist

Fils de renfort — Détermination de la torsion

Reference number
ISO 1890:1997(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 1890 was prepared by Technical Committee ISO/TC 61, *Plastics,* Subcommittee SC 13, *Composites and reinforcement fibres.*

This third edition cancels and replaces the second edition (ISO 1890:1986), which has been technically revised.

International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet central@iso.ch
X.400 c=ch; a=400net; p=iso; o=isocs; s=central

Printed in Switzerland

Reinforcement yarns — Determination of twist

1 Scope

This International Standard specifies a method for the determination of twist in yarns made from textile glass, carbon or aramid filaments.

The method applies to single yarns (one twist) and to folded or cabled yarns (two or more twists). For folded and cabled yarns, the method is generally applied only to the final twist step.

This International Standard is applicable to package-wound yarns. If the measurement is carried out on yarns taken from a beam (or warp) or from a fabric, the result is of an indicative nature only.

The method is not applicable to products made from staple fibres.

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 2:1973, *Textiles - Designation of the direction of twist in yarns and related products.*

ISO 291:—[1], *Plastics - Standard atmospheres for conditioning and testing.*

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

3 Definition

For the purposes of this International Standard, the following definition applies.

3.1 Z twist or **S twist**: The twist in a product if, when it is held in a vertical position, the spirals or helices formed by the fibres or filaments around its axis incline in the same direction as the central portion of the letter Z or S, respectively. (See ISO 2:1973, clause 2).

---

1) To be published. (Revision of ISO 291:1977)