



SLOVENSKI STANDARD

SIST EN ISO 7623:2001

01-februar-2001

Naprave za kontinuirni transport - Trakovi tračnih transporterjev z jeklenim vložkom - Sprijemna sposobnost med jeklenimi in tekstilnimi vložki - Preskus novega traku in traku po toplotni obdelavi (ISO 7623:1996)

Steel cord conveyor belts - Cord-to-coating bond test - Initial test and after thermal treatment (ISO 7623:1996)

Stahlseil-Fördergurte - Haftung zwischen den Seilen und Kernschicht - Prüfung im Anlieferungszustand und nach thermischer Behandlung (ISO 7623:1996)

Courroies transporteuses a câbles d'acier - Adhérence des câbles dans l'enrobage - Essais a l'état original et apres traitement thermique (ISO 7623:1996)

Ta slovenski standard je istoveten z: EN ISO 7623:1997

ICS:

53.040.20 Deli za transporterje Components for conveyors

SIST EN ISO 7623:2001 en

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EUROPEAN STANDARD

EN ISO 7623

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 1997

ICS 53.040.20

Descriptors: see ISO document

English version

**Steel cord conveyor belts - Cord-to-coating bond
test - Initial test and after thermal treatment
(ISO 7623:1996)**

Courroies transporteuses à câbles d'acier -
Adhérence des câbles dans l'enrobage - Essais
à l'état original et après traitement thermique
(ISO 7623:1996)

Stahseil-Fördergurte - Haftung zwischen den
Seilen und Kernschicht - Prüfung im
Anlieferungszustand und nach thermischer
Behandlung (ISO 7623:1996)

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This European Standard was approved by CEN on 1997-05-16. 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

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EN ISO 7623:1997

Foreword

The text of the International Standard from Technical Committee ISO/TC 41 "Pulleys and belts (including veebelts)" of the International Organization for Standardization (ISO) has been taken over as an European Standard by Technical Committee CEN/TC 188 "Conveyor belts", 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 month of December 1997, and conflicting national standards shall be withdrawn at the latest by December 1997.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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.

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Endorsement notice

The text of the International Standard ISO 7623:1996 has been 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 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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN</u>	<u>Year</u>
ISO 7622-2	1984	Steel cord conveyor belts - Longitudinal traction test - Part 2: Measurement of tensile strength	EN ISO 7622-2	1995

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INTERNATIONAL
STANDARD

ISO
7623

Second edition
1996-05-15

**Steel cord conveyor belts — Cord-to-coating
bond test — Initial test and after thermal
treatment**

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*Courroies transporteuses à câbles d'acier — Adhérence des câbles dans
l'enrobage — Essais à l'état original et après traitement thermique*

[SIST EN ISO 7623:2001](#)

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bca6410b85ed/sist-en-iso-7623-2001](https://standards.iteh.ai/catalog/standards/sist/44f590a0-75ac-4ee1-b800-bca6410b85ed/sist-en-iso-7623-2001)



Reference number
ISO 7623:1996(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 7623 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts*.

This second edition cancels and replaces the first edition (ISO 7623:1984), which has been technically revised.

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International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

Steel cord conveyor belts — Cord-to-coating bond test — Initial test and after thermal treatment

1 Scope

This International Standard specifies a method for determining the bond strength of metal cords to their surrounding coating, either in the initial state or after thermal treatment.

It applies exclusively to metal-carcass conveyor belts.

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 471:1995, *Rubber — Temperatures, humidities and times for conditioning and testing*.

ISO 7622-2:1984, *Steel cord conveyor belts — Longitudinal traction test — Part 2: Measurement of tensile strength*.

3 Principle

Measurement of the force required to tear one of the steel warp cords out of the carcass by applying tensile stress along the axis of the cord.

4 Apparatus

4.1 Dynamometric tensile testing machine with jaws, in accordance with that described in ISO 7622-2.

4.2 Press, having two heated platens, temperature controlled to $145\text{ °C} \pm 5\text{ °C}$, and capable of applying a pressure on the specimen (see clause 6) of between 1 MPa and 5 MPa.

5 Test conditions

Unless otherwise specified and cited in the test report, the tests shall be carried out at a temperature of $23\text{ °C} \pm 2\text{ °C}$ and at a relative humidity of $(50 \pm 5)\%$, in accordance with ISO 471.

5.1 Test in the initial state

Carry out the test described in clause 8 at least five days after manufacture of the belt.

5.2 Test after thermal treatment

Carry out the test described in clause 8 after thermal treatment of a sample of the belt by heating it between the two platens of the press (4.2) for $150\text{ min} \pm 1\text{ min}$, at a temperature of $145\text{ °C} \pm 5\text{ °C}$ and at a surface pressure of about 1 MPa but not exceeding 5 MPa.

NOTES

1 An adequate surface pressure can be obtained using spacers of a thickness of the belt test piece minus $1\text{ mm} \pm 0,5\text{ mm}$ between the platens of the press.

2 If different temperatures or pressures or the duration of their application are used, details should be specified in the test report.