



SLOVENSKI STANDARD
SIST EN ISO 7622-2:1997

01-marec-1997

**Trakovi tračnih transporterjev z vložkom iz jeklenih vrvi - Vzdolžni natezni preskus
- 2. del: Merjenje natezne trdnosti (ISO 7622-2:1984)**

Steel cord conveyor belts - Longitudinal traction test - Part 2: Measurement of tensile strength (ISO 7622-2:1984)

Stahlseilfördergurte - Zugversuch in Längsrichtung - Teil 2: Messung der Zugfestigkeit (ISO 7622-2:1984)

Courroies transporteuses a câbles d'acier - Essai de traction dans le sens longitudinal - Partie 2: Mesurage de la résistance a la rupture (ISO 7622-2:1984)

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Ta slovenski standard je istoveten z: EN ISO 7622-2:1995

ICS:

53.040.20 Deli za transporterje Components for conveyors

SIST EN ISO 7622-2:1997 en

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EUROPEAN STANDARD

EN ISO 7622-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 1995

ICS 53.040.20

Descriptors: conveyor belts, tests, tension tests, determination, tensile strength

English version

**Steel cord conveyor belts - Longitudinal traction
test - Part 2: Measurement of tensile strength
(ISO 7622-2:1984)**

Courroies transporteuses à câbles d'acier -
Essai de traction dans le sens longitudinal
Partie 2: Mesurage de la résistance à la
rupture (ISO 7622-2:1984)

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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

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Ref. No. EN ISO 7622-2:1995 E

Foreword

The text of the International Standard from ISO/TC 41 "Pulleys and belts (including veebelts)" of the International Organization for Standardization (ISO) has been taken over as a European Standard by the Technical Committee CEN/TC 188 "Conveyor belts".

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of an identical text or by endorsement, at the latest by April 1996, and conflicting national standards shall be withdrawn at the latest by April 1996.

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 EC Directive(s).

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

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The text of the International Standard ISO 7622-2:1984 has been approved by CEN as a European Standard without any modification.

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International Standard



7622/2

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Steel cord conveyor belts — Longitudinal traction test — Part 2: Measurement of tensile strength

Courroies transporteuses à câbles d'acier — Essai de traction dans le sens longitudinal — Partie 2: Mesurage de la résistance à la rupture

First edition — 1984-12-15

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UDC 621.867.21 : 620.172.24

Ref. No. ISO 7622/2-1984 (E)

Descriptors : conveyor belts, tests, tension tests, determination, tensile strength.

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7622/2 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*.

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Steel cord conveyor belts — Longitudinal traction test — Part 2: Measurement of tensile strength

0 Introduction

The test method described in this part of ISO 7622 is intended to verify, by destructive testing, the tensile strength of steel cords constituting the carcass of conveyor belts. As it is a destructive test, it should be used only in the event of litigation or where no certificate of compliance is issued by the cord manufacturer.

1 Scope and field of application

This part of ISO 7622 specifies a method for the determination of the tensile strength, in the longitudinal direction, of conveyor belts with a steel carcass.

It applies exclusively to conveyor belts with a steel carcass.

2 Reference

ISO 471, *Rubber — Standard temperatures, humidities and times for the conditioning and testing of test pieces.*

3 Principle

Traction test to breaking of a test specimen prepared in such a way that only one of the warp cords is under stress.

4 Apparatus

4.1 Dynamometric tensile testing machine, complying with the following requirements:

- the force exerted by the machine shall be adaptable to the strength of the test specimen. The testing machine capacity shall be such that the maximum testing load is 15 to 85 % of the capacity of the machine;
- the rate of separation of the jaws shall be capable of being set at 100 ± 10 mm/min and shall be capable of being maintained constant;
- the separation between the jaws shall be capable of being set at at least 250 mm;
- the form of the jaws shall be such that the test specimen is held perfectly and all possibility of slipping during the test is eliminated. For this purpose, cross-ribbed jaws (see figure 1), with the length of the ribbed part at least 80 mm, are recommended.

5 Test specimens

5.1 General

Cut three test specimens of the following dimensions:

- length (in the longitudinal direction of the belt): 450 mm min. depending on the strength of the cords;
- width: such that the test specimen contains five warp cords;

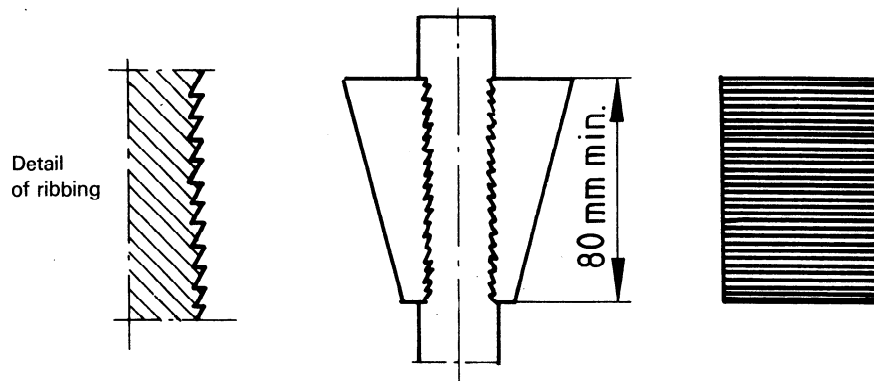


Figure 1 — Jaws

ISO 7622/2-1984 (E)

- thickness: that of the belt, including both covers (the ends may be buffed so that they are held more securely in the jaws). If the belt is too thick to be gripped in the jaws, some part of the cover can be cut off.

The test specimens shall be cut parallel to the axis of the belt and at least 50 mm from the belt edge.

Two types of test specimen (A and B) may be used.

5.2 Test specimen, type A (see figure 2)

Prepare the test specimen type A as follows:

- remove the covers and weft, if any, along 50 mm in the centre of the sample, so that the five warp cords are laid bare on both sides;

- using for example shears, cut the four cords on either side of the centre cord (take care not to damage the latter);

- using a knife, isolate the centre cord and its covering by cutting the compound parallel to this cord.

5.3 Test specimen, type B (see figure 3)

Prepare the test specimen type B as follows:

- remove the two outer cords over a length of 150 mm;
- remove the two cords on either side of the centre cord over a length of 50 mm, taking the precautions cited in 5.2.

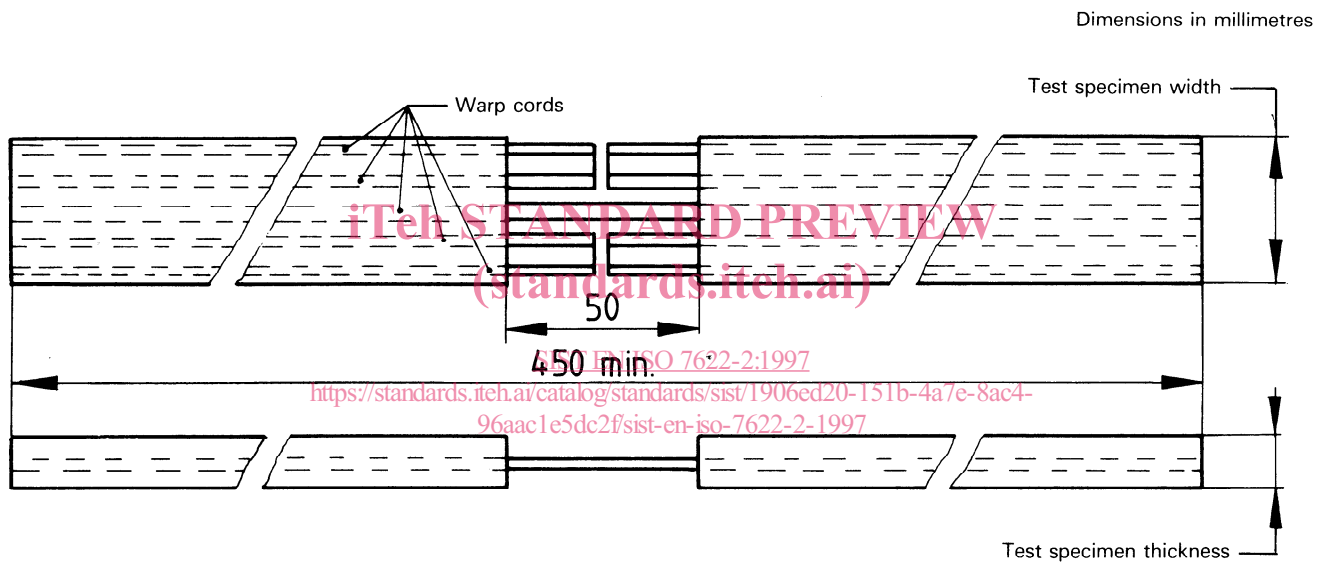


Figure 2 — Test specimen type A

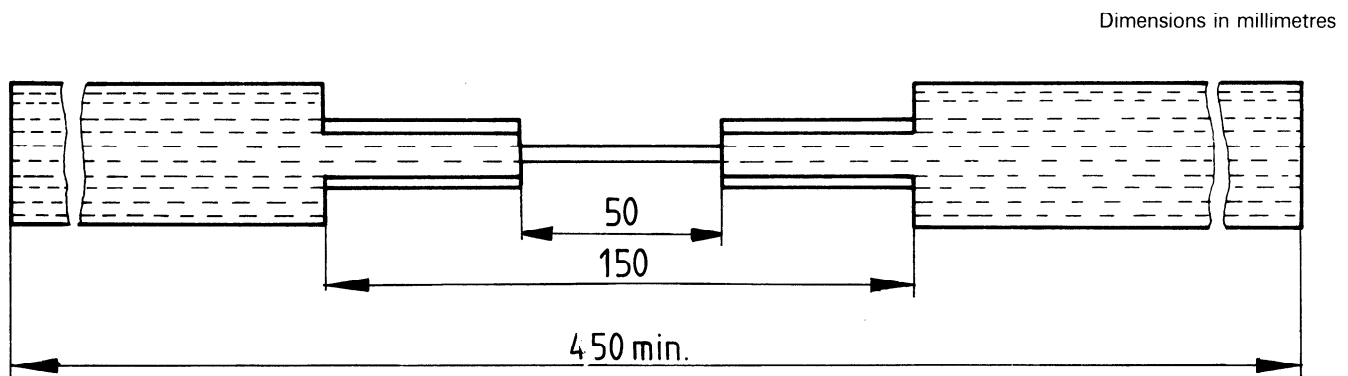


Figure 3 — Test specimen type B