



SLOVENSKI STANDARD SIST EN ISO 21182:2013

01-junij-2013

Nadomešča:
SIST EN ISO 21182:2007

**Naprave za kontinuirni transport - Lahki trakovi tračnih transporterjev -
Ugotavljanje koeficienta trenja (ISO 21182:2013)**

Light conveyor belts - Determination of the coefficient of friction (ISO 21182:2013)

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Courroies transporteuses légères - Détermination du coefficient de frottement (ISO 21182:2013)

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ICS:

53.040.10	Transporterji	Conveyors
53.040.20	Deli za transporterje	Components for conveyors

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English Version

Light conveyor belts - Determination of the coefficient of friction (ISO 21182:2013)

Courroies transporteuses légères - Détermination du
coefficient de frottement (ISO 21182:2013)

This European Standard was approved by CEN on 12 February 2013.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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Contents	Page
Foreword.....	3

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Foreword

This document (EN ISO 21182:2013) has been prepared by Technical Committee ISO/TC 41 "Pulleys and belts (including veebelts)" in collaboration with Technical Committee CEN/TC 188 "Conveyor belts" the secretariat of which is held by SNV.

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of an identical text or by endorsement, at the latest by August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 21182:2006.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 21182:2013 has been approved by CEN as EN ISO 21182:2013 without any modification.

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INTERNATIONAL
STANDARD

ISO
21182

Second edition
2013-02-15

**Light conveyor belts — Determination
of the coefficient of friction**

*Courroies transporteuses légères — Détermination du coefficient
de frottement*

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Principle	2
4.1 Dynamic coefficient of friction.....	2
4.2 Static coefficient of friction.....	2
5 Apparatus (see Figure 2)	2
6 Test piece	3
6.1 Test piece material.....	3
6.2 Number and dimensions of test pieces.....	3
6.3 Conditioning.....	4
7 Procedure	6
8 Calculation and expression of results	6
8.1 Dynamic friction, μ_D	6
8.2 Static friction μ_S	7
8.3 Examples for recorded graph of μ_S (force/path diagrams).....	7
9 Test report	9
Bibliography	10

SIST EN ISO 21182:2013

<https://standards.iteh.ai/catalog/standards/sist/96af2c2c-2545-4130-a53c-9749a0abbd5d/sist-en-iso-21182-2013>

ISO 21182:2013(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 21182 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts*.

This International Standard is based on EN 1724:1998, prepared by CEN/TC 188.

This second edition cancels and replaces the first edition (ISO 21182:2005), of which it constitutes a minor revision.

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Introduction

The coefficient of friction of light conveyor belts has to be seen from two different aspects relevant to the choice of the reference material. One aspect is the friction of the underside of the belt. In practice, this is not critical because it is low. Regardless of whether a table of steel or of wood is used, the coefficient of friction is within the range from 0,2 to 0,3 in most cases.

Contrary to this, the top face covers show values over an extended range dependent on their actual function. To achieve this function, the material itself can be modified as well as the surface pattern but the test procedure is the same in every case. So it becomes clear that the chosen steel panel represents a compromise. Its main properties are reproducibility of the surface finish and uncritical friction behaviour against any kind of belt cover.

This International Standard allows comparison of all kinds of conveyor belt to obtain reliable results as a reference. This can be helpful to buyers who need guidance in choosing the right belt for their particular application.

The tests in accordance with this International Standard are limited to dynamic coefficients of friction (μ_D) up to 1,0 and static coefficients of friction (μ_S) up to 1,5. Higher values can show a mixture of friction, adhesion, deformation and other effects occurring, especially where the surface texture is coarse and is therefore unsuitable for this test.

The method using the standardized metallic test panel is intended especially to compare the coefficients of friction of different light conveyor belts. The values received under practice conditions always depend on the frictional partners.

To determine these effects, it is possible to choose a different frictional partner instead of the panel if required. This is mentioned in the test report.

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