

**Konveierilindid. Süttivuskatsed
tulesimulatsiooniga. Osa 2:
Laiaulatuslikud tulekatsed**

Conveyor belts - Fire simulation flammability testing
- Part 2: Large scale fire test

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 12881-2:2005 sisaldab Euroopa standardi EN 12881-2:2005 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 22.06.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 12881-2:2005 consists of the English text of the European standard EN 12881-2:2005.</p> <p>This document is endorsed on 22.06.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This document describes a method of test for the assessment of the fire propagation along a conveyor belt when the belt is exposed to a heat source.</p>	<p>Scope: This part of EN 12881 describes a method of test for the assessment of fire propagation along a conveyor belt when the belt is exposed to a heat source.</p>
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ICS 13.220.40, 53.040.20

Võtmesõnad:

ICS 13.220.40; 53.040.20

English version

Conveyor belts - Fire simulation flammability testing - Part 2: Large scale fire test

Courroies transporteuses - Essais de simulation
d'inflammation - Partie 2 : Essai au feu à grande échelle

Fördergurte - Brandtechnische Prüfungen - Teil 2:
Brandstreckenprüfung

This European Standard was approved by CEN on 21 March 2005.

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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 Central Secretariat has the same status as the official versions.

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Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC9

Foreword

This document (EN 12881-2:2005) has been prepared 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 November 2005, and conflicting national standards shall be withdrawn at the latest by November 2005.

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).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

The other part of EN 12281 is:

EN 12881-1, *Conveyor belts – Fire simulation flammability testing – Part 1: Propane burner tests*

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

Introduction

The method of test described in this part of EN 12881 is intended to provide an indication of the reaction of a conveyor belt when exposed to a large fire. The fire being simulated is one not caused by a local heat source but by materials around the conveyor belt which catch fire following exposure to other heat sources. Attention is drawn to the fact that in assessing the overall flammability characteristics of conveyor belting for specific installations, it is not sufficient to rely solely on any single method of test but consideration should also be given to the individual site location.

1 Scope

This part of EN 12881 describes a method of test for the assessment of fire propagation along a conveyor belt when the belt is exposed to a heat source.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 60584-1, *Thermocouples - Part 1: Reference tables (IEC 60584-1:1995)*

ISO 3130, *Wood – Determination of moisture content for physical and mechanical tests*

3 Apparatus

3.1 Fire gallery lined with fire clay bricks having a cross sectional area of 8 m² and a length of at least 70 m . The fuel in the fire object area shall be supported by four steel arches 1 m apart (see Figures 1a) and 1b)).

3.2 Trestle for positioning the conveyor belt in the fire gallery during the test. The trestle shall be 18 m long and 1,2 m wide having idlers with a pitch of 1,5 m and a troughing angle of 30°.

3.3 Fire object comprising

- a) 260 kg of air-dried coniferous wood in the form of round timber, having a diameter of 8 cm to 12 cm and a length of 1,25 m, cut in the longitudinal direction and having moisture content of (10 ± 2) % measured as described in ISO 3130; and

- b) 40 kg of smaller wood pieces and wood shavings for ignition

(see Figures 1a) and 1b)).

3.4 Anemometer for measuring the air speed in the fire gallery positioned 10 m in front of the test piece in the direction of the air flow.

3.5 Row of thermocouples, Type K (Ni-Cr/Ni) according to EN 60584-1, positioned in the longitudinal direction above the test piece, a distance of approximately 3 m from each other and 100 mm under the roof of the fire gallery (see Figures 1a) and 1b)).

4 Preparation

4.1 Test piece

The test piece shall be cut 18 m long at full belt width.

4.2 Temperature before the test

The ambient temperature shall be between 5 °C and 30 °C before the test.

4.3 Number of tests

One test shall be carried out.