



SLOVENSKI STANDARD
oSIST prEN 12882:2024
01-november-2024

Naprave za kontinuirni transport - Trakovi tračnih transporterjev za splošne namene - Električne in požarnovarnostne zahteve

Conveyor belts for general purpose use - Electrical and flammability safety requirements

Fördergurte für allgemeine Anwendung - Elektrische und brandtechnische Sicherheitsanforderungen

Courroies transporteuses à usage général - Prescriptions de sécurité électrique et protection contre l'inflammabilité

Ta slovenski standard je istoveten z: prEN 12882

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ICS:

13.220.40	Sposobnost vžiga in obnašanje materialov in proizvodov pri gorenju	Ignitability and burning behaviour of materials and products
53.040.20	Deli za transporterje	Components for conveyors

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EUROPEAN STANDARD
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ICS 53.040.20

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English Version

Conveyor belts for general purpose use - Electrical and flammability safety requirements

Courroies transporteuses à usage général -
Prescriptions de sécurité électrique et protection
contre l'inflammabilité

Fördergurte für allgemeine Anwendung - Elektrische
und brandtechnische Sicherheitsanforderungen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 188.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 12882:2024) has been prepared by Technical Committee CEN/TC 188 “Conveyor belts”, the secretariat of which is held by SNV.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 12882:2015.

This document includes the following significant technical changes with respect to EN 12882:2015:

- The EN ISO 20238 procedures have been revised for categories 3A, 3B, 4B, 5A, 5B and 5C;
- A new Clause 6 "Test reports for conveyor belts for use above ground" has been added;
- The definition of the type series has been revised and described in detail.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

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prEN 12882:2024 (E)

Introduction

This document is a type C standard as stated in EN ISO 12100:2010.

The machinery concerned and the extent to which hazards, hazardous situations and events are covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

During the preparation of this document, the hazards which have been identified as being directly related to the use of conveyor belts are:

- a) hazards associated with the discharge of static electrical energy;
- b) hazards associated with the impingement of small naked flames on the cover and/or carcass of a conveyor belt at rest;
- c) hazards caused by the stalling of a conveyor belt and the continued operation of the driving mechanism causing localized heating of the conveyor belt through contact with the driving drum or cylinder or some other source of frictional heat;
- d) hazards caused by the propagation of a flame along a belt which has been exposed to a relatively high energy source such as a fire.

The risk, or probable rate of occurrence of these hazards and the degree of harm they can cause will vary depending upon the particular circumstances of the application or site of application, which are many and varied. Consequently, the level of safety required will vary from one application to another, depending upon the risks judged to be pertinent. The hazards listed above should not be taken as the only properties affecting safety in operation. Other aspects such as health or environmental requirements should be considered. Depending on the individual end use requirement, these other factors can affect the category of belt selected and additional safety precautions may need to be employed.

This document is therefore designed to enable the user to select the category of conveyor belt most suited to the particular circumstances of the application.