
Neporušitvene preiskave - Film za industrijsko radiografijo - 2. del: Kontrola razvijanja filmov s pomočjo referenčnih vrednosti (prevzet standard EN 584-2:1996 z metodo platnice)

Non-destructive testing - Industrial radiographic film - Part 2: Control of film processing by means of reference values

Essais non destructifs - Film pour radiographie industrielle - Partie 2: Contrôle du traitement des films au moyen de valeurs de référence
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Zerstörungsfreie Prüfung - Industrielle Filme für die Durchstrahlungsprüfung - Teil 2: Kontrolle der Filmverarbeitung mit Hilfe von Referenzwerten
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Deskriptorji: neporušitvene preiskave, industrijska radiografija, radiografski film, nadzor, reproducibilnost, občutljivost, fotografiranje, klasifikacija

ICS 19.100

Referenčna številka
SIST EN 584-2:1998 (en)

Nadaljevanje na straneh od II do III in 1 do 12

UVOD

Standard SIST EN 584-2, Neporušitvene preiskave - Film za industrijsko radiografijo - 2. del: Kontrola razvijanja filmov s pomočjo referenčnih vrednosti, prva izdaja, 1998, ima status slovenskega standarda in je z metodo platnice prevzet evropski standard EN 584-2, Non destructive testing - Industrial radiographic film - Part 2: Control of film processing by means of reference values, 1996-12, v angleškem jeziku.

NACIONALNI PREDGOVOR

Standard EN 584-2:1996 je pripravil tehnični odbor Evropske organizacije za standardizacijo CEN/TC 138 Neporušitvene preiskave.

Odločitev za prevzem tega standarda po metodi platnice je dne 1998-05-05 sprejel tehnični odbor USM/TC PKG Preskušanje kovinskih gradiv.

Ta slovenski standard je dne 1998-06-18 odobril direktor USM.

ZVEZA S STANDARDOM

S prevzemom tega evropskega standarda velja naslednja zveza:

SIST EN 584-1:1996 (en), Neporušitvene preiskave - Film za industrijsko radiografijo - 1. del:
Klasifikacija sistemov filmov za industrijsko radiografijo

OSNOVA ZA IZDAJO STANDARDA

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OPOMBI

- Povsod, kjer se v besedilu standarda uporablja izraz "evropski standard", v SIST EN 584-2:1998 to pomeni "slovenski standard".
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- Uvod in nacionalni predgovor nista sestavni del standarda.

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EUROPEAN STANDARD

EN 584-2

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 1996

ICS 19.100

Descriptors: non-destructive tests, industrial radiography, radiographic film, inspection, reproducibility, sensitivity : photography, classifications

English version

Non-destructive testing - Industrial radiographic film - Part 2 : Control of film processing by means of reference values

Essais non destructifs - Film pour radiographie industrielle - Partie 2 : Contrôle du traitement des films au moyen de valeurs de référence

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Zerstörungsfreie Prüfung - Industrielle Filme für die Durchstrahlungsprüfung - Teil 2 : Kontrolle der Filmverarbeitung mit Hilfe von Referenzwerten

SIST EN 584-2:1998

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This European Standard was approved by CEN on 1996-12-06. 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, 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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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 138 "Non-destructive testing", the secretariat of which is held by AFNOR.

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 June 1997, and conflicting national standards shall be withdrawn at the latest by June 1997.

A second part of this standard is

EN 584-1 Non-destructive testing - Industrial radiographic film - Part 1:
Classification of film systems for industrial radiography.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of 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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Introduction

The purpose of this standard is to describe a procedure for the control of the film processing systems by users by processing calibrated pre-exposed strips.

The strips are exposed to X-rays and are accompanied by a certificate from the film strip manufacturer.

The user processes the pre-exposed strips in his system and records the results.

In this standard, clause 4 shows the responsibility of the film strip manufacturer. The user is responsible for clauses 5 to 8, which show compliance with the chosen system classification.

1 Scope

This standard describes a procedure for the control of film processing systems.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are 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.

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EN 584-1:1994 Non-destructive testing - Industrial radiographic film - Part 1: Classification of film systems for industrial radiography

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 film system

Combination of film and film processing which is carried out in accordance with the instructions of film manufacturer and/or the manufacturer of the processing chemicals [EN 584-1:1994].

3.2 film system class

A classification taking into account limiting values given in table 1 of EN 584-1:1994.

3.3 film strip

A piece of film material on which a step wedge can be exposed.

3.4 pre-exposed film strip

A film strip that is pre-exposed so as to present at least ten different densities after processing.

3.5 Net density

Optical density without base and fog density.

4 Manufacturing of pre-exposed film strips for control of the processing system

4.1 Size

The film strips shall have a minimum exposed area of 15 mm x 100 mm. The pre-exposed film strips have different fields: A step wedge for density measurements and a blank field for base plus fog density and long term storage time test.

4.2 Selection of film strip type

The selected type of film for film strips shall have a response to processing which is representative for the set of films as classified according to EN 584-1.

4.3 Examples of production of pre-exposed film strips

The exposure arrangement is shown in figure 1. The step wedge design is described in figure 2 and table 1. A different design and material can be used if same density steps are provided.

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Dimensions in millimeters

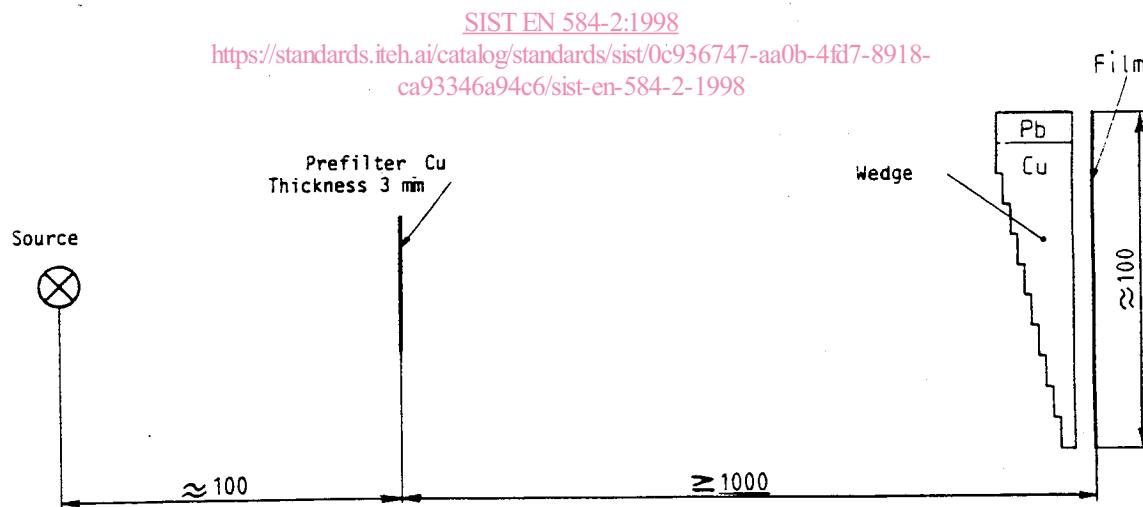


Figure 1: Example of an exposure arrangement

The successive steps of the film strip shall be exposed in order to obtain density increments of about 0,3 after processing, for example by a step wedge as described in table 1 and figure 2.

Appropriate precautions against scattered radiation have to be taken. The radiation source is a constant potential X-ray tube operated at approximately 150 kV. The exposure time is chosen in this way as to obtain a net density of approximately 2,0 at one of the first six steps (going from low to high densities) of the step wedge after processing the pre-exposed film strip in the conditions of the system classified according to EN 584-1.