

Mittepurustav katsetamine. Radiograafi kujutise kvaliteet. Osa 3: Kujutise kvaliteediklassid mustmetallide kohta

Non-destructive testing - Image quality of
radiographs - Part 3: Image quality classes for
ferrous metals

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 462-3:1999 sisaldab Euroopa standardi EN 462-3:1996 ingliskeelset teksti. Käesolev dokument on jõustatud 23.11.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 462-3:1999 consists of the English text of the European standard EN 462-3:1996. This document is endorsed on 23.11.1999 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.
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Käsitlusala: Standard määrab kindlaks ühtlase radiograafilise kvaliteedi tagava kujutise minimaalse kvaliteediarvu. See kehtib kaht tüüpi kvaliteediindikaatori kohta, nagu kirjeldatud standardis EN 462-1 (traadi tüüpi IQI-indikaator) ja standardis EN 462-2 (astme/ava tüüpi IQI-indikaator) ning kahe standardis EN 444 toodud tehnika kohta. Väärtused on esitatud standardis EN 444 kindlaksmääratud radiograafilise tehnika kahe klassi ning mustmetallide kohta.	Scope:
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ICS 19.100

Võtmesõnad: fotograafilised kujutised, kujutise kvaliteedi indikaatorid, kvaliteediklassid, mittepurustavad teimid, rauasulamid, tööstuslik radiograafia

ICS 19.100

Descriptors: Non-destructive testing, industrial radiography, radiographs, image quality classes.

English version

Non-destructive testing

Image quality of radiographs

Part 3: Image quality classes for ferrous metals

Essais non destructifs – Qualité d'image
des radiogrammes – Partie 3: Classes de
qualité d'image pour des métaux ferreux

Zerstörungsfreie Prüfung – Bildgüte von
Durchstrahlungsaufnahmen – Teil 3:
Bildgüteklassen für Eisenwerkstoffe

This European Standard was approved by CEN on 1996-09-27.

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.

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.

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

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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.

The EN 462 series of European Standards comprises the following Parts:

EN 462-1

Non-destructive testing – Image quality of radiographs – Part 1: Image quality indicators (wire type): Determination of image quality value

EN 462-2

Non-destructive testing – Image quality of radiographs – Part 2: Image quality indicators (step/hole type): Determination of image quality value

EN 462-3

Non-destructive testing – Image quality of radiographs – Part 3: Image quality classes for ferrous metals

EN 462-4

Non-destructive testing – Image quality of radiographs – Part 4: Experimental evaluation of image quality values and image quality tables

EN 462-5

Non-destructive testing – Image quality of radiographs – Part 5: Image quality indicators (duplex wire type): Determination of image unsharpness value

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, and conflicting standards withdrawn, by April 1997 at the latest.

In accordance with 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.

1 Scope

This standard specifies the minimum image quality values to ensure a uniform radiographic quality. It applies to the two types of image quality indicator as detailed in EN 462-1 for wire type IQI and EN 462-2 for step/hole type IQI and for the two techniques described in EN 444. Values are specified for the two classes of radiographic technique specified in EN 444 and for ferrous metals.

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 444. | Non-destructive testing - General principles for radiographic examination of metallic materials by X and Gamma rays |
| EN 462-1 | Non-destructive testing - Image quality of radiographs - Part 1: Image quality indicators (wire type), determination of image quality value |
| EN 462-2 | Non-destructive testing - Image quality of radiographs - Part 2: Image quality indicators (step/hole type), determination of image quality value |
| EN 462-4 | Non-destructive testing - Image quality of radiographs - Part 4: Experimental evaluation of image quality values and image quality tables |
| EN 584-1 | Non-destructive testing - Industrial radiographic film - Part 1: Classification of film systems for industrial radiography |
| prEN 1435 | Non-destructive examination of welds - Radiographic examination of welded joints. |
| EN 25 580 | Non-destructive testing - Industrial radiographic illuminators - Minimum requirements (ISO 5580:1985) |

3 Definitions

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

- 3.1 Clasification of radiographic techniques
see EN 444
- 3.2 Image quality indicator (IQI)
see EN 462-1 and EN 462-2
- 3.3 Image quality value
see EN 462-1 and EN 462-2