

**Mittepurustav katsetamine. Radiograafi
kujutise kvaliteet. Osa 4: Kujutise
kvaliteediarvude ja kvaliteeditabelite
katseline hindamine**

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 462-4:1999 sisaldab Euroopa standardi EN 462-4:1994 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 23.11.1999 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 462-4:1999 consists of the English text of the European standard EN 462-4:1994.</p> <p>This document is endorsed on 23.11.1999 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: Standard esitab juhised kujutise kvaliteediarvude ja kvaliteeditabelite katseliseks hindamiseks.</p>	<p>Scope:</p>
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ICS 19.100

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

ICS 19.100

Descriptors: Non-destructive testing, industrial radiography, radiograph, image quality value, image quality table.

English version

Non-destructive testing

Image quality of radiographs

**Part 4: Experimental evaluation of image quality values and
image quality tables**

Essais non destructifs; qualité d'image
des radiogrammes. Partie 4: Evaluation
expérimentale des indices de qualité
d'image et des tables de qualité d'image

Zerstörungsfreie Prüfung; Bildgüte von
Durchstrahlungsaufnahmen. Teil 4:
Experimentelle Ermittlung von Bildgüte-
zahlen und Bildgüdetabellen

This European Standard was approved by CEN on 1994-11-10.

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 CEN/TC 138 'Non-destructive testing', the Secretariat of which is held by AFNOR.

EN 462-4 is a Part of a series of European Standards; the other Parts are:

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 462-5 Non-destructive testing; image quality of radiographs. Part 5: Image quality indicators (duplex wire type), determination of total 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 national standards withdrawn, by May 1995 at the latest.

In accordance with the CEN/CENELEC Internal Regulations, 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 United Kingdom.

1 Scope

This standard gives instructions for the determination of image quality values and image quality tables.

If the IQI requirements from part 3 of this standard cannot be used, because, for example, the absorption coefficients of the IQI material and the inspected material differ by more than 30 %, test exposures are necessary to determine acceptance of image quality values. The image quality values achieved by the test exposures are required for all exposures made under the same radiographic conditions.

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.

- 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

3 Definitions

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

3.1 Image quality indicators (IQI)

See EN 462-1 and EN 462-2.

3.2 Image quality

See EN 462-1 and EN 462-2.

3.3 Image quality value

See EN 462-1 and EN 462-2.

3.4 Image quality table

Achieved image quality values versus the penetrated wall thickness (see clause 4).