Mittepurustav katsetamine. Radiograafi kujutise kvaliteet. Osa 1: Kujutise kvaliteedi indikaatorid (traadi tüüpi). Kujutise kvaliteediarvu määramine

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

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 462-1:1999 sisaldab Euroopa standardi EN 462-1:1994 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 462-1:1999 consists of the English text of the European standard EN 462-1:1994. 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.

Käsitlusala: Standardi EN 462 käesolev osa määrab kindlaks (traadi tüüpi) seadme ja meetodi radiograafi kujutise kvaliteedi määramiseks. Ülejäänud seadmeid käsitletakse käesoleva standardi 2. ja 5. osas.	**Scope:**

ICS 19.100

Võtmesõnad: fotograafilised kujutised, kujutise kvaliteedi indikaatorid, kvaliteet, mittepurustavad teimid, mõõtmed, nimetamine, tähistus, tööstuslik radiograafia, ärakasutamine

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 462-1

January 1994

UDC 620.179.152:771.537:001.4

Descriptors: Non-destructive testing, industrial radiography, photographic images, quality, image quality indicators, dimensions, designations, marking, use.

English version

Non-destructive testing

Image quality of radiographs

Part 1: Image quality indicators (wire type)
Determination of image quality value

Essais non destructifs; qualité d'image des radiogrammes. Partie 1: Indicateurs de la qualité d'image (à fils), détermination de l'indice de qualité

Zerstörungsfreie Prüfung; Bildgüte von Durchstrahlungsaufnahmen. Teil 1: Bildgüteprüfkörper (Drahtsteg); Ermittlung der Bildgütezahl

This European Standard was approved by CEN on 1994-01-14.

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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Contents

Foreword

This European Standard was prepared by the Technical Committee CEN/TC 138 'Non-destructive testing', the Secretariat of which is held by ANFOR.

EN 462-1 is Part of a series of European Standards, the other Part being the following :

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 class for ferrous metals

EN 462-4 Non-destructive testing; image quality of radiographs. Part 4: Experimental evalutation of image quality values and image quality tables

EN 462-5 Non-destructive testing; image quality of radigraphs. Part 5: Image quality indicators (duplex wire type). Determination of total image unsharpness value

This European Standard has been prepared under a madate given to CEN by the Commission of the European Communities and the European Free Trade Association, and supports essential requirements of relevant EC Directive(s).

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 July 1994 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 Part of this European Standard specifies a device and a method for the determination of the image quality of radiographs. Other devices are the subject of Parts 2 and 5 of the standard.

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 462-2 Non-destructive testing - Image quality of radiographs - Part 2: Image quality indicators (step/hole type), determination of image quality values[1])

EN 462-4 Non-destructive testing - Image quality of radiographs - Part 4: Experimental evaluation of image quality values and image quality tables[1])

EN 462-5 Non-destructive testing - Image quality of radiographs - Part 5: Image quality indicators (Duplex wire type) - Determination of image unsharpness value[1])

EN 25 580 Non-destructive testing - Industrial radiographic illuminators - Minimum requirements (ISO 5580:1985)

EN 45 014 General criteria for suppliers, declaration of conformity

3 Definitions

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

3.1 Image quality

That characteristic of a radiographic image which determines the degree of detail which it shows.

3.2 Image quality indicator (IQI)

A device comprising a series of elements of graded dimensions which enable a measure of the image quality to be obtained. The elements of IQI are commonly wires or steps with holes.

3.3 Image quality value

A measure of the image quality required or achieved and is equal to the wire number given in table 1 for the thinnest wire which can be detected on the radiograph.

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[1]) In preparation