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

Non-destructive testing - Image quality of radiographs - Part 3: Image quality classes (ISO 19232-3:2013)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 19232-3:2013 sisaldab Euroopa standardi EN ISO 19232-3:2013 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 19232-3:2013 consists of the English text of the European standard EN ISO 19232-3:2013.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 19.06.2013.	Date of Availability of the European standard is 19.06.2013.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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English Version

Non-destructive testing - Image quality of radiographs - Part 3: Image quality classes (ISO 19232-3:2013)

Essais non destructifs - Qualité d'image des radiogrammes - Partie 3: Classes de qualité d'image (ISO 19232-3:2013)

Zerstörungsfreie Prüfung - Bildgüte von Durchstrahlungsaufnahmen - Teil 3: Bildgüteklassen (ISO 19232-3:2013)

This European Standard was approved by CEN on 15 May 2013.

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

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Foreword

This document (EN ISO 19232-3:2013) has been prepared by Technical Committee ISO/TC 135 "Non-destructive testing" in collaboration with 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of an identical text or by endorsement, at the latest by December 2013, and conflicting national standards shall be withdrawn at the latest by December 2013.

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Endorsement notice

The text of ISO 19232-3:2013 has been approved by CEN as EN ISO 19232-3:2013 without any modification.

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1 Scope

This part of ISO 19232 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 ISO 19232-1 for wire-type IQI and ISO 19232-2 for step/hole-type IQI and for the two techniques described in ISO 5579. Values are specified for the two classes of radiographic technique specified in ISO 5579.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5579, *Non-destructive testing — Radiographic examination of metallic materials by X- and gamma rays — Basic rules*

ISO 5580, *Non-destructive testing — Industrial radiographic illuminators — Minimum requirements*

ISO 17636 (all parts), *Non-destructive testing of welds — Radiographic testing*

ISO 19232-1, *Non-destructive testing — Image quality of radiographs — Part 1: Determination of the image quality of radiographs using wire-type indicators*

ISO 19232-2, *Non-destructive testing — Image quality of radiographs — Part 2: Determination of the image quality value using step/hole-type image quality indicators*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5579 and the following apply.

3.1
image quality indicator
IQI
device comprising a series of elements of graded dimensions which enable a measure of the image quality to be obtained

Note 1 to entry: The elements of IQI are commonly wires or steps with holes.

3.2
image quality value
measure of the image quality required or achieved and is equal to the thinnest element which can be detected on the radiograph

Note 1 to entry: See Tables 1 to 12 for the related values.

3.3
image quality table
table of minimum required image quality values versus the penetrated thickness ranges