
**Non-destructive testing — Image quality
of radiographs —**

Part 2:
**Image quality indicators (step/hole
type) — Determination of image quality
value**

Essais non destructifs — Qualité d'image des radiogrammes —

*Partie 2: Indicateurs de qualité d'image (à trous et à gradins) —
Détermination de l'indice de qualité d'image*



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 19232-2 was prepared by CEN (as EN 462-2:1994) and was adopted, under a special "fast-track procedure", by Technical Committee ISO/TC 135, *Non-destructive testing*, Subcommittee SC 5, *Radiation methods*, in parallel with its approval by the ISO member bodies.

ISO 19232 consists of the following parts, under the general title *Non-destructive testing — Image quality of radiographs*:

- *Part 1: Image quality indicators (wire type) — Determination of image quality value*
- *Part 2: Image quality indicators (step/hole type) — Determination of image quality value*
- *Part 3: Image quality classes for ferrous metals*
- *Part 4: Experimental evaluation of image quality values and image quality tables*
- *Part 5: Image quality indicators (duplex wire type) — Determination of image unsharpness value*

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Non-destructive testing — Image quality of radiographs —

Part 2:

Image quality indicators (step/hole type) — Determination of image quality value

1 Scope

This part of ISO 19232 specifies a device and a method for the determination of the image quality of radiographs using step/hole type image quality indicators.

2 Normative references

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

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

ISO 19232-4, *Non-destructive testing — Image quality of radiographs — Part 4: Experimental evaluation of image quality values and image quality tables*

ISO 19232-5, *Non-destructive testing — Image quality of radiographs — Part 5: Image quality indicators (Duplex wire type) — Determination of image unsharpness value*

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

ISO/IEC Guide 22, *General criteria for supplier's declaration of conformity*

3 Definitions

For the purposes of this document, the following definitions apply.

3.1

image quality

that characteristic of a radiographic image which determines the degree of detail which it shows (ISO 19232-1)

3.2

image quality indicator (IQI)

a device that consists of an arrangement of steps of different thicknesses and holes of different diameters. The hole diameters correspond to the step thicknesses (see Figure 1)

3.3

image quality value

a measure of the image quality required or achieved and is equal to the number given in Table 1 for the smallest hole which can be detected on the radiograph