
**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



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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 19232-3 was prepared by CEN (as EN 462-3:1996) 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 3: Image quality classes for ferrous metals

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 and for ferrous metals.

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

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

ISO 19232-2, *Non-destructive testing — Image quality of radiographs — Part 2: Image quality indicators (step/hole 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 11699-1, *Non-destructive testing — Industrial radiographic film — Part 1: Classification of film systems for industrial radiography*

ISO 17636, *Non-destructive testing of welds — Radiographic testing of fusion-welded joints*

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

3 Definitions

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

3.1

classification of radiographic techniques

see ISO 5579

3.2

image quality indicator (IQI)

see ISO 19232-1 and ISO 19232-2