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**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 qualité d'image (à fils) — Détermination de  
l'indice de qualité d'image*



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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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 19232-1 was prepared by CEN (as EN 462-1:1994) 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 1:

## Image quality indicators (wire 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 wire 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 19232-2, *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 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

#### 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