Draft for Public Comment

Form 36

DPC: 25/30477181 DC

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Date: 01 September 2025
Origin: International

Latest date for receipt of comments: 25 October 2025

Project No. 2023/01584

Responsible committee: WEE/46/5 Radiographic Testing

Interested committees:

Title: Draft BS EN ISO 14096-1 Non-destructive testing — Qualification of radiographic film digitisation systems. Part 1: Definitions, quantitative measurements of image quality parameters, standard reference film and qualitative control.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex **(e.g. 3.1)**	Paragraph/ Figure/Table/Note	**Type of comment**	**Commend (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations on each comment submitted**
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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DRAFT International Standard

ISO/DIS 14096-1

ISO/TC **135**/SC **5**

Secretariat: **DIN**

Voting begins on:
2025-09-01

Voting terminates on:
2025-11-24

Non-destructive testing — Qualification of radiographic film digitisation systems —

Part 1: Definitions, quantitative measurements of image quality parameters, standard reference film and qualitative control

Essais non destructifs — Qualification des systèmes de numérisation des films radiographiques —

Partie 1: Définitions, mesures quantitatives des paramètres de qualité d'image, film de référence normalisé et contrôle qualitatif

ICS: 37.040.25

This document has not been edited by the ISO Central Secretariat.

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 135, *Non-destructive testing*, Subcommittee SC 5, *Radiation methods*.

This second edition cancels and replaces the first edition (ISO 14096-1:2005), which has been technically revised.

The main changes are as follows:

— definitions of terms 3.2, 3.6, 3.7, 3.13, 3.16 and 3.17 updated;

— clause 4 symbols and abbreviations added;

— in clause 5.1.3, details added on digitisers capable to capture densities D>4,5;

— in clause 5.1.5 details on the calculation of the standard deviation σ_{D} of the calibrated density $D(gl)$ and Note 2 added;

— determination of the basic spatial resolution of the digitiser ($SR_{\mathrm{b}}^{\mathrm{D}}$) added in the new clause 5.2.5;

— new clause 6 "Presentation of results" with a new figure 2 added;

— new table 2 with quality numbers for representation of results in fig. 2 added;

— new figure 1 presents examples of line pair test pattern for direct evaluation of $SR_{\mathrm{b}}^{\mathrm{D}}$;

— "MTF calculation" moved to Annex A and "standard reference film" description moved to Annex B;

— editorial updated.

A list of all parts in the ISO 14096 series can be found on the ISO website.

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Introduction

Radiographic film systems are used for industrial inspection by X- and gamma rays. To apply means of computer support for analysis, transmission and storage the information stored in the radiographic film should be converted into digital data (digitisation). This document defines minimum requirements to ensure that the relevant information for evaluation of the digital data is preserved during the film digitisation process.

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