

**Non-destructive testing - Industrial radiographic film -
Part 1: Classification of film systems for industrial
radiography (ISO 11699-1:2008)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 11699-1:2011 sisaldab Euroopa standardi EN ISO 11699-1:2011 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 11699-1:2011 consists of the English text of the European standard EN ISO 11699-1:2011.
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 26.10.2011.	Date of Availability of the European standard is 26.10.2011.
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English Version

**Non-destructive testing - Industrial radiographic film - Part 1:
Classification of film systems for industrial radiography (ISO
11699-1:2008)**

Essais non destructifs - Film pour radiographie industrielle -
Partie 1: Classification des systèmes films pour
radiographie industrielle (ISO 11699-1:2008)

Zerstörungsfreie Prüfung - Industrielle Filme für die
Durchstrahlungsprüfung - Teil 1: Klassifizierung von
Filmsystemen für die industrielle Durchstrahlungsprüfung
(ISO 11699-1:2008)

This European Standard was approved by CEN on 25 September 2011.

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Foreword

The text of ISO 11699-1:2008 has been prepared by Technical Committee ISO/TC 135 “Non-destructive testing” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 11699-1:2011 by 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of an identical text or by endorsement, at the latest by April 2012, and conflicting national standards shall be withdrawn at the latest by April 2012.

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Endorsement notice

The text of ISO 11699-1:2008 has been approved by CEN as a EN ISO 11699-1:2011 without any modification.

Non-destructive testing — Industrial radiographic film —

Part 1:

Classification of film systems for industrial radiography

1 Scope

The purpose of this part of ISO 11699 is to establish the performance of film systems.

This part of ISO 11699 is applicable for the classification of film systems in combination with specified lead screens for industrial radiography (non-destructive testing). This part of ISO 11699 is intended to ensure that the image quality of radiographs — as far as this is influenced by the film system — is in conformity with the requirements of International Standards such as ISO 5579, ISO 17636 and EN 12681.

This part of ISO 11699 does not apply to the classification of films used with fluorescent intensifying screens. The measurement of film systems in this part of ISO 11699 is restricted to a selected radiation quality to simplify the procedure. The properties of films will change with radiation energy, but not the ranking of film system quality.

Additional methods for evaluating the photographic process are described in ISO 11699-2, by which the performance of film systems can be controlled under the conditions given in industry.

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 11699-2, *Non-destructive testing — Industrial radiographic films — Part 2: Control of film processing by means of reference values*

ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories*

3 Terms and definitions

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

3.1

film system

combination of film and film processing which is carried out in accordance with the instructions of the film manufacturer and/or the manufacturer of the processing chemicals

3.2

film gradient

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slope of the characteristic curve of a film at a specified optical density D