

Non-destructive testing - Visual testing - Equipment

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13927:2003 sisaldab Euroopa standardi EN 13927:2003 ingliskeelset teksti.	This Estonian standard EVS-EN 13927:2003 consists of the English text of the European standard EN 13927:2003.
Käesolev dokument on jõustatud 15.04.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 15.04.2003 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

Käsitlusala: This European Standard describes general requirements for equipment used in visual testing. The application of equipment is necessary in visual testing when:- objects, which are visually or on account of environmental factors not accessible, need to be made accessible to viewing;- the test sensitivity is insufficient;- an imaging record is required	Scope: This European Standard describes general requirements for equipment used in visual testing. The application of equipment is necessary in visual testing when:- objects, which are visually or on account of environmental factors not accessible, need to be made accessible to viewing;- the test sensitivity is insufficient;- an imaging record is required
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ICS 19.100

Võtmesõnad: endoscopy apparatus, macroscopic analysis, nondestructive tests, perfo, picture recording, quality assurance, selection, sight check, size analysis, surface inspections, test equipment, testing, welded joints, visibleness, visual inspection (testing)

ICS 19.100

English version

Non-destructive testing - Visual testing - Equipment

Essais non destructifs - Contrôle visuel - Equipement

Zerstörungsfreie Prüfung - Sichtprüfung - Geräte

This European Standard was approved by CEN on 12 December 2002.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This document (EN 13297:2003) has been prepared 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 August 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.

Annex A is informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard describes general requirements for equipment used in visual testing.

The application of equipment is necessary in visual testing when:

- objects, which are visually or on account of environmental factors not accessible, need to be made accessible to viewing;
- the test sensitivity is insufficient;
- an imaging record is required.

This European Standard includes the verification of equipment.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 1330-10:2003, *Non-destructive testing – Terminology - Part 10: Terms used in visual testing*

EN 13018:2001, *Non-destructive testing – Visual testing – General principles*

ISO 3057, *Non-destructive testing – Metallographic replica techniques of surface examination*

ISO 3058, *Non-destructive testing – Aids to visual inspection – Selection of low-power magnifiers*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 1330-10:2003 apply.

4 Classification

Equipment which is used in visual testing is classified according to the visual testing technique (direct or remote as described in EN 13018) and is outlined further in informative annex A.

5 Verification

5.1 General

Verification shall be carried out to ensure that the equipment or test arrangement (system) will fulfil its test function. This may include checking the mechanical, optical and electronic capability of the equipment.

The verification of the system and the test sensitivity shall be by comparison with the specification in the test documentation. When comparing, testing parameters shall be as follows.