

**Non-destructive testing of steel tubes - Part 3:
Automated full peripheral flux leakage testing of
seamless and welded (except submerged arc-welded)
ferromagnetic steel tubes for the detection of
longitudinal and/or transverse imperfections (ISO 10893-
3:2011)**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 10893-3:2011 sisaldab Euroopa standardi EN ISO 10893-3:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.04.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 01.04.2011.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 10893-3:2011 consists of the English text of the European standard EN ISO 10893-3:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.04.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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The standard is available from Estonian standardisation organisation.

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defects, determination, magnetic tests, metal tubes, non-destructive tests, pipes (tubes), pressure tubes, seamless tubes, steel tubes, tests

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English Version

Non-destructive testing of steel tubes - Part 3: Automated full peripheral flux leakage testing of seamless and welded (except submerged arc-welded) ferromagnetic steel tubes for the detection of longitudinal and/or transverse imperfections (ISO 10893-3:2011)

Essais non destructifs des tubes en acier - Partie 3:
Contrôle automatisé par flux de fuite sur toute la
circonférence des tubes en acier ferromagnétique sans
soudure et soudés (sauf à l'arc immergé sous flux en
poudre) pour la détection des imperfections longitudinales
et/ou transversales (ISO 10893-3:2011)

Zerstörungsfreie Prüfung von Stahlrohren - Teil 3:
Automatisierte Streuflussprüfung nahtloser und
geschweißter (ausgenommen unterpulvergeschweißter)
ferromagnetischer Stahlrohre über den gesamten
Rohrumfang zum Nachweis von Unvollkommenheiten in
Längs- und/oder Querrichtung (ISO 10893-3:2011)

This European Standard was approved by CEN on 10 December 2010.

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 CEN-CENELEC Management Centre or to any CEN member.

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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN ISO 10893-3:2011) has been prepared by Technical Committee ISO/TC 17 "Steel" in collaboration with Technical Committee ECISS/TC 110 "Steel tubes, and iron and steel fittings" the secretariat of which is held by UNI.

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 October 2011, and conflicting national standards shall be withdrawn at the latest by October 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 10893-3:2011 has been approved by CEN as a EN ISO 10893-3:2011 without any modification.

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Non-destructive testing of steel tubes —

Part 3:

Automated full peripheral flux leakage testing of seamless and welded (except submerged arc-welded) ferromagnetic steel tubes for the detection of longitudinal and/or transverse imperfections

1 Scope

This part of ISO 10893 specifies requirements for automated full peripheral magnetic flux leakage testing of seamless and welded ferromagnetic steel tubes, with the exception of submerged arc-welded (SAW) tubes, for the detection of imperfections.

Unless otherwise specified in the purchase order, this part of ISO 10893 is applicable to the detection of predominantly longitudinal imperfections.

This part of ISO 10893 is applicable to the inspection of tubes with an outside diameter equal to or greater than 10 mm.

This part of ISO 10893 can also be applicable to the testing of hollow sections.

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 9712, *Non-destructive testing — Qualification and certification of personnel*

ISO 11484, *Steel products — Employer's qualification system for non-destructive testing (NDT) personnel*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 11484 and the following apply.

3.1

reference standard

standard for the calibration of non-destructive testing equipment (e.g. drill holes, notches and recesses)

3.2

reference tube

tube or length of tube containing the reference standard(s)