Non-destructive testing - Magnetic particle testing - Part 2: Detection media (ISO 9934-2:2015)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 9934-2:2015 sisaldab Euroopa standardi EN ISO 9934-2:2015 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 9934-2:2015 consists of the English text of the European standard EN ISO 9934-2:2015.
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 16.09.2015.	Date of Availability of the European standard is 16.09.2015.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 19.100

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EUROPEAN STANDARD NORME EUROPÉENNE

EN ISO 9934-2

EUROPÄISCHE NORM September 2015

ICS 19.100

Supersedes EN ISO 9934-2:2002

English Version

Non-destructive testing - Magnetic particle testing - Part 2: Detection media (ISO 9934-2:2015)

Essais non destructifs - Magnétoscopie - Partie 2: Produits indicateurs (ISO 9934-2:2015)

Zerstörungsfreie Prüfung - Magnetpulverprüfung - Teil 2: Prüfmittel (ISO 9934-2:2015)

This European Standard was approved by CEN on 10 July 2015.

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

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European foreword

This document (EN ISO 9934-2:2015) has been prepared by Technical Committee CEN/TC 138 "Non-destructive testing", the secretariat of which is held by AFNOR, in collaboration with Technical Committee ISO/TC 135 "Non-destructive testing".

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of an identical text or by endorsement, at the latest by March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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.

This document supersedes EN ISO 9934-2:2002.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 9934-2:2015 has been approved by CEN as EN ISO 9934-2:2015 without any modification.

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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.

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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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

ISO 9934-2 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 138, Non-destructive testing, in collaboration with ISO/TC 135, Non-destructive testing, Subcommittee SC 2, Surface methods, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 9934-2:2002), which has been technically revised.

ISO 9934 consists of the following parts under the general title Non-destructive testing — Magnetic particle testing:

- Part 1: General principle
- Part 2: Detection media
- Part 3: Equipment

Non-destructive testing — Magnetic particle testing —

Part 2:

Detection media

1 Scope

This part of ISO 9934 specifies the significant properties of magnetic particle testing products (including magnetic ink, powder, carrier liquid, contrast aid paints) and the methods for checking their properties.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2160, Petroleum products — Corrosiveness to copper — Copper strip test

ISO 2591-1, Test sieving — Part 1: Methods using test sieves of woven wire cloth and perforated metal plate

ISO 3059, Non-destructive testing — Penetrant testing and magnetic particle testing — Viewing conditions

ISO 3104, Petroleum products — Transparent and opaque liquids — Determination of kinematic viscosity and calculation of dynamic viscosity

ISO 4316, Surface active agents — Determination of pH of aqueous solutions — Potentiometric method

ISO 9934-1, Non-destructive testing — Magnetic particle testing — Part 1: General principle

ISO 9934-3, Non-destructive testing — Magnetic particle testing — Part 3: Equipment

ISO 12707, Non-destructive testing — Terminology — Terms used in magnetic particle testing

EN 1330-1, Non-destructive testing — Terminology — Part 1: List of general terms

EN 1330-2, Non-destructive testing — Terminology — Part 2: Terms common to the non-destructive testing methods

EN 1330-7, Non-destructive testing — Terminology — Part 7: Terms used in magnetic particle testing

EN 10083-2, Quenched and tempered steels — Part 2: Technical delivery conditions for non-alloy steels

EN 10204, Metallic products — Types of inspection documents

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1330-1, EN 1330-2, EN 1330-7, ISO 12707, and the following apply.

3.1

hatch

quantity of material produced during one manufacturing operation having uniform properties throughout and with a unique identifying number or mark