

SLOVENSKI STANDARD oSIST prEN ISO 3452-5:2007

01-marec-2007

Neporušitveno preskušanje – Penetrantski preskusi – 5. del: Penetrantski preskusi pri temperaturah, višjih od 50 °C (ISO/DIS 3452-5:2006)

Non-destructive testing - Penetrant testing - Part 5: Penetrant testing at temperatures higher than 50 degrees C (ISO/DIS 3452-5:2006)

Zerstörungsfreie Prüfung - Eindringprüfung - Teil 5: Eindringprüfung bei Temperaturen über 50 °C (ISO/DIS 3452-5:2006)

Essais non destructifs - Examen par ressuage - Partie 5: Examen par ressuage aux températures au-dessus de 50 degrés C (ISO/DIS 3452-5:2006)

Ta slovenski standard je istoveten z: prEN ISO 3452-5

ICS:

19.100 Neporušitveno preskušanje Non-destructive testing

oSIST prEN ISO 3452-5:2007 en

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT prEN ISO 3452-5

November 2006

ICS 19.100

English Version

Non-destructive testing - Penetrant testing - Part 5: Penetrant testing at temperatures higher than 50 degrees C (ISO/DIS 3452-5:2006)

Essais non destructifs - Examen par ressuage - Partie 5: Examen par ressuage aux températures au-dessus de 50 degrés C (ISO/DIS 3452-5:2006)

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If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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Foreword

This document (prEN ISO 3452-5:2006) 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 document is currently submitted to the parallel Enquiry.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

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DRAFT INTERNATIONAL STANDARD ISO/DIS 3452-5

ISO/TC 135/SC 2 Secretariat: SABS

Voting begins on: Voting terminates on:

2006-11-30 2007-04-30

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Non-destructive testing — Penetrant testing —

Part 5:

Penetrant testing at temperatures higher than 50 °C

Essais non destructifs — Examen par ressuage —

Partie 5: Examen par ressuage aux températures au-dessus de 50 ℃

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In accordance with the provisions of Council Resolution 15/1993 this document is circulated in the English language only.

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 3452-5:2006 (E) was prepared by Technical Committee ISO/TC 135, *Non-destructive testing*, Subcommittee SC 2, and by Technical Committee CEN/TC 138, *Non-destructive testing* in collaboration. This standard was prepared with the essential contribute of ISPESL (Italy), whose laboratory performed prenormative research activity to verify the possibility to use penetrant at temperature higher than 50 °C, up to 200 °C.

ISO 3452 consists of the following parts, under the general title Non-destructive testing — Penetrant testing:

- Part 1: General principles.
- Part 2: Testing of penetrant materials. 59a9
- Part 3: Reference test blocks.
- Part 4: Equipment.
- Part 5: Penetrant testing at temperatures higher than 50°C.
- Part 6: Penetrant testing at temperatures lower than 10°C.

Introduction

Temperatures higher than 50°C can affect the properties of penetrant test materials. The use of penetrant materials and the testing of penetrant materials within the temperature range 10°C to 50°C are the subject of EN 571-1 and EN ISO 3452-2. This standard addresses materials and their use at higher temperatures.

This standard introduces the concept of process times being linked to working temperatures and accordingly users are recommended to ensure that testing products are correctly associated with process parameters in written instructions (procedures).

Testing products may be specifically developed and qualified for high temperature use but testing products qualified for use at normal temperatures, in some cases, may also be suitable for higher temperature use.

With these aims, ISPESL (Italy) and its expert in CEN/TC 138/WG 4 promoted and supported the development of this standard.

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