

Non-destructive testing — Recommendations for discontinuities-types in test specimens for examination

ICS 19.100

Confirmed December 2008

National foreword

This Draft for Development is the official English language version of CEN/TS 15053:2005.

This publication is not to be regarded as a British Standard.

It is being issued in the Draft for Development series of publications and is of a provisional nature because details for these types of test specimens have not previously been covered by formal standardization. It should be applied on this provisional basis, so that information and experience of its practical application may be obtained.

Comments arising from the use of this Draft for Development are requested so that UK experience can be reported to the European organization responsible for its conversion to a European standard. A review of this publication will be initiated 2 years after its publication by the European organization so that a decision can be taken on its status at the end of its 3-year life. Notification of the start of the review period will be made in an announcement in the appropriate issue of *Update Standards*.

According to the replies received by the end of the review period, the responsible BSI Committee will decide whether to support the conversion into a European Standard, to extend the life of the Technical Specification or to withdraw it. Comments should be sent in writing to the Secretary of BSI Technical Committee WEE/46, Non-destructive testing, at British Standards House, 389 Chiswick High Road, London W4 4AL, giving the document reference and clause number and proposing, where possible, an appropriate revision of the text.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Summary of pages

This document comprises a front cover, an inside front cover, the CEN/TS title page, pages 2 to 15 and a back cover.

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Amendments issued since publication

Amd. No.	Date	Comments

This Draft for Development was published under the authority of the Standards Policy and Strategy Committee on 13 December 2005

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English Version

Non-destructive testing - Recommendations for discontinuities- types in test specimens for examination

Essais non destructifs - Recommandations relatives aux
types de discontinuités présentes dans les échantillons
d'essai utilisés pour les examens

Zerstörungsfreie Prüfung - Empfehlungen für Arten von
Inhomogenitäten in Prüfungsstücken für Prüfungen

This Technical Specification (CEN/TS) was approved by CEN on 7 May 2005 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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Foreword

This Technical Specification (CEN/TS 15053:2005) has been prepared by Technical Committee CEN/TC 138 “Non-destructive testing”, the secretariat of which is held by AFNOR.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This Technical Specification is established to consider and define discontinuities-types to be exhibited in test specimens for use in practical Non Destructive Testing examinations. According to EN 473:2000, Clause 7.1.3.3, the discontinuities contains in the test specimens may be natural, artificial or implanted.

Acoustic Emission Testing, Infrared Thermography Testing and Leak Testing need not define discontinuity-type, due to their specific approach (e.g. replaced in AT by artificial sources).

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.

EN 473:2000, *Non-destructive testing – Qualification and certification of NDT personnel - General principles*.

EN ISO 4063, *Welding and allied processes - Nomenclature of processes and reference numbers (ISO 4063:1998)*.

EN ISO 6520-1, *Welding and allied processes - Classification of geometric imperfections in metallic materials. Part 1: Fusion welding (ISO 6520-1:1998)*

3 Terms and definitions

For the purposes of this Technical Specification, the terms and definitions given in EN 473:2000 and the following apply.

3.1

Test area

area of a test specimen, either the whole or just a part, which is to be tested by a candidate during the practical examination. A single test specimen can contain a number of test areas with no overlap

3.2

Minimum number of test pieces

maximum number of candidates allowed to perform simultaneously a practical examination, in an examination centre approved by a certifying body, shall be a figure less than the total number of test specimens that the examination centre has to hold at one's disposal, for this examination

4 Product sectors

4.1 Castings (c)

4.1.1 Configuration

The range of test specimens held by the examination centre may include the following characteristics:

- Cylindrical section (large and small diameters);
- Flanges;
- Changes of sections;