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Normklasse: S 36

Niet-destructief onderzoek - Aanbevelingen voor soorten onvolkomenheden in proefstukken voor onderzoek

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

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

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Deze Europese norm CEN/TS 15053:2005 heeft de status van een Belgische norm.

Deze Europese norm bestaat in drie officiële versies (Duits, Engels, Frans).



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*norme belge
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1e éd., novembre 2005

Indice de classement: S 36

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

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La présente norme européenne CEN/TS 15053:2005 a le statut d'une norme belge.

La présente norme européenne existe en trois versions officielles (allemand, anglais, français).



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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.

CEN/TS 15053:2005 (E)

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;