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Non-destructive testing — General terms and definitions

Essais non destructifs — Termes généraux et définitions

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Foreword

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This document was prepared by ISO/TC 135, *Non-destructive testing*.

This first edition cancels and replaces the first edition of ISO/TS 18173:2005, which has been technically revised.

The main changes are as follows:

— harmonizes and updates the terms and definitions of Non-Destructive Testing (NDT) in ISO/TS 18173: 2005, EN 1330-2: 1998 and ASTM E1316-13c.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document defines the general technical terms that are used in many non-destructive testing disciplines. These terms are not usually defined in the standards pertaining to individual non-destructive test methods. Thus, the terms and definitions in this document serve to establish a common basis for further standardization and general use in the field of non-destructive testing and thereby provide for enhanced understanding in commerce and industry.

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Non-destructive testing — General terms and definitions

1 Scope

This document defines general technical terms used in many non-destructive testing disciplines.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
acceptance criteria
criteria against which a *test object* (3.30) is *evaluated* (3.10) in order to determine its acceptability

3.2
acceptance level
set of prescribed parameters defining the threshold(s) for acceptance

3.3
artificial discontinuity
discontinuity (3.9) such as a hole, groove or notch introduced into a piece by machining or another process

3.4
calibration
<instrument> comparison of an instrument with known reference(s)

Note 1 to entry: Not applicable to all *NDT methods* (3.17).

3.5
defect
one or more *flaws* (3.12) whose aggregate size, shape, orientation, location or properties do not meet specified *acceptance criteria* (3.1)

3.6
detection
noticing the presence of a *flaw* (3.12)

3.7
detection sensitivity
capacity of an *NDT method* (3.17) to detect *discontinuities* (3.9) or *imperfections* (3.14)

Note 1 to entry: The higher the detection sensitivity, the greater the capability of an NDT method for detecting a small *discontinuity* (3.9) (see *detection threshold* (3.8)).

3.8
detection threshold
lowest limit of *flaw* (3.12) *detection* (3.6)

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