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Non-destructive testing — Leak testing — Vocabulary

Essais non-destructifs — Contrôle d'étanchéité — Vocabulaire

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Foreword

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This document is based on and replaces the European standard EN 1330-8:1998, *Non-destructive testing — Terminology — Part 8: Terms used in leak tightness testing*.

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Introduction

The series of European standards, EN 1330, comprises 10 parts prepared separately by groups of experts, each group consisting of experts in a given NDT (non-destructive testing) method (for EN 1330-3 to EN 1330-10).

A comparative examination of these parts has shown the existence of common terms that are often defined differently. These terms have been taken from EN 1330-3 to EN 1330-10 and then split into two categories:

— general terms corresponding to other fields such as physics, electricity, metrology, etc. and already defined in international documents; these terms are the subject of EN 1330-1;

— common terms specific to NDT; these terms, the definitions of which have been harmonized in an Ad Hoc group, are the subject of EN 1330-2.

In view of the nature of the approach taken, the list of terms in EN 1330-1 and EN 1330-2 are in no way exhaustive.

EN 1330 consists of the following parts:

— *Part 1: General terms*

— *Part 2: Terms common to the non-destructive testing methods*

— *Part 3: Terms used in industrial radiographic testing*

— *Part 4: Terms used in ultrasonic testing*

— *Part 7: Terms used in magnetic particle testing*

— *Part 9: Terms used in acoustic emission*

— *Part 10: Terms used in visual examination*

NOTE 1 ISO 12718 replaced EN 1330–5.

NOTE 2 ISO 12706 was published formerly as the draft European standard prEN 1330–6.

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Non-destructive testing — Leak testing — Vocabulary

1 Scope

This document defines the terms used in leak testing.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

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

3.1 Atomic/molecular structure

3.1.1
concentration
c
ratio of the number of atoms or molecules of a given constituent in a gas mixture to the total number of atoms or molecules in the mixture

Note 1 to entry: For ideal gases, this is equivalent to the ratio of the partial pressure to the total pressure.

Note 2 to entry: In other cases, the concentration is considered as mole fraction and the symbol used is n_B.

3.1.2
ionization potential
minimum energy, expressed in electronvolts, required to remove an electron from an atom or molecule or ion to form a positive ion

3.2 Pressure and vacuum

3.2.1
atmospheric pressure
pressure of the atmosphere at a specified place and time

3.2.2
partial pressure
p_A, p_B
pressure that would be exerted by a gas or vapour if it alone was present in an enclosure

3.3 Gas-solid interaction

3.3.1
gettering
removal of a gas by permanent binding in or on a solid, usually involving chemical reaction

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