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		03 8001

Corrosion of metals and alloys - Basic terms and definitions (ISO 8044:2015)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola označená vo Vestníku ÚNMS SR č. 01/16

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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN ISO 8044**

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Supersedes EN ISO 8044:1999

English Version

**Corrosion of metals and alloys - Basic terms and  
definitions (ISO 8044:2015)**

Corrosion des métaux et alliages - Termes principaux  
et définitions (ISO 8044:2015)

Korrosion von Metallen und Legierungen -  
Grundbegriffe (ISO 8044:2015)

This European Standard was approved by CEN on 13 May 2015.

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## European foreword

This document (EN ISO 8044:2015) has been prepared by Technical Committee ISO/TC 156 "Corrosion of metals and alloys" in collaboration with Technical Committee CEN/TC 262 "Metallic and other inorganic coatings" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2016, and conflicting national standards shall be withdrawn at the latest by March 2016.

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## Endorsement notice

The text of ISO 8044:2015 has been approved by CEN as EN ISO 8044:2015 without any modification.

NORME  
INTERNATIONALE

Fourth edition  
Quatrième édition  
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**Corrosion of metals and alloys — Basic terms and definitions**

**Corrosion des métaux et alliages —  
Termes principaux et définitions**

**Korrosion von Metallen und  
Legierungen — Grundbegriffe**



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 156, *Corrosion of metals and alloys*.

This fourth edition cancels and replaces the third edition (ISO 8044:1999), which has been revised to include additional terms and definitions.

## **Introduction**

The definitions in this International Standard have been drawn up with the objective of achieving a proper balance between precision and simplicity. The main objective of this International Standard is to provide definitions that can be understood to have the same meaning by all concerned. Some corrosion terms in present use have developed through common usage and are not always logical. It has not, therefore, been possible to define certain terms in the form they are used in some countries. Because of the occasional conflicts between tradition and logic some definitions inevitably represent a compromise.

An example of this kind of conflict is the term "corrosion". This has been used to mean the process, results of the process and damage caused by the process. In this International Standard corrosion is understood to mean the process. Any detectable result of corrosion in any part of a corrosion system is termed "corrosion effect". The term "corrosion damage" covers any impairment of the function of the technical system of which the metal and the environment form a part. Consequently the term "corrosion protection" implies that the important thing is to avoid corrosion damage rather than to prevent corrosion, which in many cases is impossible and sometimes not necessary.

# Corrosion of metals and alloys — Basic terms and definitions

## 1 Scope

This International Standard defines terms relating to corrosion that are widely used in modern science and technology. In addition, some definitions are supplemented with short explanations.

NOTE 1 Throughout the document IUPAC rules for electrode potential signs are applied. The term “metal” is also used to include alloys and other metallic materials.

NOTE 2 Terms and definitions related to inorganic surface treatment of metals are given in ISO 2080.

NOTE 3 See also the ISO online browsing platform (OBP): [www.iso.org/obp/ui/](http://www.iso.org/obp/ui/)

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