



**NSAI**  
Standards

Irish Standard  
I.S. EN 1965-2:2011

## Structural adhesives - Corrosion - Part 2: Determination and classification of corrosion to a brass substrate

## I.S. EN 1965-2:2011

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

*This document replaces:*  
EN 1965-2:2001

*This document is based on:*  
EN 1965-2:2011

*Published:*  
23 May, 2011

This document was published under the authority of the NSAI and comes into effect on:  
23 May, 2011

ICS number:  
83.180

**NSAI**  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

**Sales:**  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

## Structural adhesives - Corrosion - Part 2: Determination and classification of corrosion to a brass substrate

Adhésifs structuraux - Corrosion - Partie 2: Détermination et classification de la corrosion d'un substrat en laiton

Strukturklebstoffe - Korrosion - Teil 2: Bestimmung und Klassifikation der Korrosion eines Messingmaterials

This European Standard was approved by CEN on 10 March 2011.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**Management Centre: Avenue Marnix 17, B-1000 Brussels**

## Contents

|  | Page      |
|--|-----------|
| Foreword.....  | 3         |
| <b>1 Scope .....</b>   | <b>4</b>  |
| <b>2 Normative references .....</b>  | <b>4</b>  |
| <b>3 Terms and definitions .....</b>   | <b>4</b>  |
| <b>4 Principle.....</b>  | <b>4</b>  |
| <b>5 Products, materials and apparatus.....</b>  | <b>4</b>  |
| 5.1 Solvent.....   | 4         |
| 5.2 Brass electrode, consisting of 0,1 mm thick brass, Ms63F45 or Ms63F55 of width 10 mm. ....   | 4         |
| 5.3 Etching solution, consisting of 73 % concentrated sulfuric acid (98 %), 26 % concentrated nitric acid (63 %), 0,5 % sodium chloride, 0,5 % carbon black. ....    | 4         |
| 5.4 Conditioning chamber, capable of maintaining a hot/humid climate in accordance with EN ISO 291.....  | 5         |
| 5.5 Direct current source, (100 ± 5) V, e.g. a battery, or rectifying equipment with a maximum permissible electrodyne alternating current not greater than 1 %..... | 5         |
| 5.6 Magnifier, with a magnification of 2,5 ×.....  | 5         |
| 5.7 Electrode and clamping, in accordance with Figure 1 .....  | 5         |
| <b>6 Preparation of the brass substrate .....</b>  | <b>7</b>  |
| <b>7 Test specimens .....</b>  | <b>7</b>  |
| <b>8 Procedure .....</b>   | <b>7</b>  |
| <b>9 Discolouration/corrosion .....</b>  | <b>8</b>  |
| <b>10 Test report .....</b>  | <b>8</b>  |
| <b>Annex A (normative) Gradings for the appearance of plus pole and minus pole test foils at the surface of contact at the test specimen .....</b>                   | <b>9</b>  |
| <b>Bibliography .....</b>  | <b>10</b> |

## Foreword

This document (EN 1965-2:2011) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by AENOR.

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 November 2011, and conflicting national standards shall be withdrawn at the latest by November 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1965-2:2001.

**SAFETY STATEMENT** — Persons using this document should be familiar with the normal laboratory practice, if applicable. This document does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any regulatory conditions.

**ENVIRONMENTAL STATEMENT** — It is understood that some of the material permitted in this standard may have negative environmental impact. As technological advantages lead to acceptable alternatives for these materials, they will be eliminated from this standard to the extent possible.

At the end of the test, the user of the standard should take care to carry out an appropriate disposal of the wastes, according to local regulation.

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

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
  - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-