

SLOVENSKI STANDARD SIST ENV 1965-1:1998

01-februar-1998

Konstrukcijska lepila - Korozija - 1. del: Ugotavljanje in klasifikacija korozivnosti na bakreni testni podlagi

Structural adhesives - Corrosion - Part 1: Determination and classification of corrosion to a copper substrate

Struktur Klebstoffe - Korrosion - Teil 1: Bestimmung und Klassifikation der Korrosion eines Kupfermaterials iTeh STANDARD PREVIEW

Adhésifs structuraux - Corrosion - Partie 1: Détermination et classification de la corrosion d'un substrat en cuivre SIST ENV 1965-1:1998

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Ta slovenski standard je istoveten z: ENV 1965-1-1998

ICS:

77.060 Korozija kovin Corrosion of metals

83.180 Lepila Adhesives

SIST ENV 1965-1:1998 en **SIST ENV 1965-1:1998**

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ENV 1965-1

PRÉNORME EUROPÉENNE

EUROPÄISCHE VORNORM

June 1995

ICS 77.060; 83.180

Descriptors:

adhesives, tests, determination, corrosion, chemical attack, copper, classifications

English version

Structural adhesives - Corrosion - Part 1: Determination and classification of corrosion to a copper substrate

Adhésifs structuraux - Corrosion - Partie 1:

Détermination et classification de la corrosion DARD PREStimung und Klassifikation der Korrosion d'un substrat en cuivre

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MINISTRATVO ZA ZNANOST IN TEHNOLOGIJO

Urad RS za standardizacijo in meroslovje

SIST ENV 1965-1

PREVZET PO METODI RAZGLASITVE

-02- 1998

This European Prestandard (ENV) was approved by CEN on 1993-06-07 as a prospective standard for provisional application. The period of validity of this ENV 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 ENV can be converted into an European Standard (EN).

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CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

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This European Prestandard has been prepared by the Technical Committee CEN/TC 193 "Adhesives", of which the secretariat is held by AFNOR.

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According to the CEN/CENELEC Internal Regulations, the following countries are bound to announce this European Prestandard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom. on the figure of the contract of the contract

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La salar Barrier

1 Scope

This part of the present European Prestandard describes a method to determine the ability of a liquid adhesive to corrode a copper substrate under heat ageing conditions. Temperatures and ageing periods are chosen to ensure the maximum differentiation between the corrosivity of different adhesives and are not intended to represent any particular service condition.

2 Normative references

This European Prestandard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed here after. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Prestandard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

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EN 923 1)

Adhesives - Terms and definitions.

ISO 6958 : 1984

Wrought copper and copper alloys - Drawn rectangular bars dimensions and form tolerances.

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3 Definition

For the purpose of this Prestandard, the following definition applies

corrosion: is a destructive attack on metals which may be chemical or electrochemical in nature, the described method measures essentially only the chemical attack. The electrochemical contribution is eliminated as far as possible by ensuring that there is no electrolyte and that the copper substrate is, as far as practicable, free from metallic impurities which may result in the formation of a galvanic cell.

4 Principe

An abraded an polished copper substrate is coated with a thin film of the liquid adhesive and then aged for 24 hours in dry heat at 50 °C or 100 °C. Following this the surface is examined and the extent of tarnishing and/or decided on the basis of discolouration.

A minimum of three test specimens should be used for each evaluation.

¹⁾ In course of preparation.

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Materials required and the first of the first of the second of the second

5.1 Solvent ...

Any sulphur free, hydrocarbon based solvent, which has been shown to cause no discolouration of the abraded copper substrate at 50 °C is suitable.

5.2 Copper substrate

Rectangle 12 x 2 mm, ISO 6958 E-Cu F30, produced by electrolysis.

Abrasive cloth or emery paper 5.3

Grade P240 silicon carbide as defined by FEPA-43, (Fédération Européenne des Fabricants de Produits Abrasifs).

5.4 Liquid abrasive

(Silicon carbide) grade 150. right house of the court

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Stainless steel tweezers ANDARD PREV

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150.5.6 Cotton wool

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https://standa 6 Preparation of the copper substratenv-1965-1-1998 to a solid live to the

Lay the abrasive cloth or emery paper on a flat surface and wet it with the solvent. Place the copper plate on top of this and cover with the filter paper, to ensure that the copper sufface is protected from contamination by fingers. Rub the copper plate in a criss-cross pattern against the abrasive material until a uniform abraded surface is achieved. ទំនោះ ក្រុម ស្រុក ស្រុក ស្រុក

to abrade all six plane surfaces of the test substrate beginning with the edges and finishing with the faces. Following this abrasion, store the copper strip in solvent. Garage Control of the Control of the

为一样的。例如《金**斯特的**和图像》 7 Liquid abrasion Secretification for Autosian

Remove the copper plate from the solvent, handling only with the tweezers, and place on a clean glass plate. Coat the copper plate with the liquid abrasive and abrade with a piece of cotton wool which has been moistened with a drop of solvent. Finally, polish vigorously with clean, dry, cotton wool, repeating the polishing with fresh pieces of cotton wool until one remains clean and white following polishing.

On completion of the final abrasion, immediately immerse the copper plate in a shallow dish of the adhesive, again handling with tweezers, and place in a oven at 50 or 100 °C for 24 hours..

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Remove the copper plate from the dish with the tweezers and carefully wash in solvent to remove uncured material, then dry it with the filter paper. It is essential that the test repeated if, during any of the above procedures or testing, the copper substrate :

a) is touched by fingers;

ise the course

- b) comes into contact with water, or ;
- c) comes into contact with any other material;

or if the appearance of the edge of the plate is significantly different from that of the face.

Compared to State of State of

8 Discolouration/corrosion

THE REPORT OF THE PARTY. This is graded as in Table 1, on examination of the copper surface using normal vision corrected if necessary:

Table 1

	Corrosion grade	Significance	Description
	0 iTob S	No tarnish or corrosion	Unchanged :
	1 11 (5	Light tamish tandards.iteh.ai)	Weak/pale orange, hardly changed when compared with a lightly polished copper
	https://atendords.ite	SIST ENV 1965-1:1998	substrate, may also be dark orange.
	2 8	Moderate tarnish ₉₆₅₋₁₋₁₉₉₈	Wine-red; lavender-blue, a lot of lavender-blue and/or
ां छटा है	ទៅក្នុង នៃមន្ត្រី ប៉ុន្តែ ១ ១៩៤២ មានកង្សាយ។ (២៤) ២១០១៦ ១៣ ២ ២១០១៩២០ ២ (១)	oga mesik and disk som to kolu s mang mening mesik mesik mesik meningan	silver with a red-wine covering. Silver. Brass coloured or golden.
		Heavy tarnish	Magenta with a brass coloured surface. A lot of red
(3 (36)		en en him en la mus fillant las eil. Lineolo la merción serió helveble	and green shimmer tant (Butterfly) but no grey.
	4	Corrosion	Transparent black or dark grey or brown with the "Butterfly" with a slight green
A DW COST	#6, 1.1910 (28.4 g. 4) かかり これの最ものにも 28 14 から	in the land the class of the con- traction of the contract of the con- traction of the contract of the con-	shimmer. Graphite black or dull black. Shiny or pitch black.
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9 Report

The test report shall include:

- a) a reference to this part of European Prestandard;
- b) type and designation of the product tested;
- c) description of the substrate preparation procedure;
- d) description of the type and thickness of the substrates ;
- e) corrosion/discolouration grade ranking;
- f) details of any operations not specified in this part of the European Prestandard together with details of any events likely to have had an effect on the results.

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