



**SLOVENSKI STANDARD
SIST EN ISO 15908:2003**

01-maj-2003

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Adhesives for thermoplastic piping systems - Test method for the determination of thermal stability of adhesives (ISO 15908:2002)

Klebstoffe für thermoplastische Rohrleitungssysteme - Prüfverfahren für die Bestimmung der thermischen Beständigkeit von Klebstoffen (ISO 15908:2002)

Adhésifs pour réseaux de tuyauteries en matières thermoplastiques - Méthode d'essai de stabilité thermique d'un adhésif (ISO 15908:2002)

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Ta slovenski standard je istoveten z: EN ISO 15908:2002

ICS:

83.180 Lepila Adhesives

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 15908

December 2002

ICS 83.180

English version

Adhesives for thermoplastic piping systems - Test method for
the determination of thermal stability of adhesives (ISO
15908:2002)

Adhésifs pour réseaux de tuyauteries en matières
thermoplastiques - Méthode d'essai de stabilité thermique
d'un adhésif (ISO 15908:2002)

Klebstoffe für thermoplastische Rohrleitungssysteme -
Prüfverfahren für die Bestimmung der thermischen
Beständigkeit von Klebstoffen (ISO 15908:2002)

This European Standard was approved by CEN on 21 June 2002.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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Foreword

This document EN ISO 15908:2002 has been prepared by Technical Committee CEN/TC 193 "Adhesives", the secretariat of which is held by AENOR, in collaboration with Technical Committee ISO/TC 138 "Plastics, pipes, fittings and valves for transport of fluids".

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 June 2003, and conflicting national standards shall be withdrawn at the latest by June 2003.

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

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EN ISO 15908:2002 (E)

1 Scope

This European Standard specifies a test method for the determination of the thermal stability of chloride-containing solvent-based and solvent-free adhesives for joining thermoplastic piping systems.

2 Normative references

This European Standard 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 hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 923, *Adhesives — Terms and definitions.*

EN 1066, *Adhesives — Sampling.*

EN 1067, *Adhesives — Examination and preparation of samples for testing.*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions of EN 923 apply.

4 Principle

A sample of dry adhesive film is heated in a test tube at 200 °C. Indicator paper is used to indicate when the adhesive film releases hydrochloride. The time taken for the adhesive film to release hydrochloride at 200 °C is taken as a measure of the thermal stability of the adhesive.

5 Safety

Persons using this standard shall be familiar with normal laboratory practice.

This standard does not purport to address all the safety problems, if any, associated with its use.

It is the responsibility of the user to establish safety and health practices and to ensure compliance with any European or national regulatory conditions.

6 Apparatus

6.1 Heating block, for heating test tubes at $(200 \pm 0,5)$ °C

6.2 Test tubes, of glass, height 110 mm, diameter 5 mm and wall thickness 0,9 mm

6.3 Universal indicator paper, pH 1-11

6.4 Adhesive applicator, capable of producing an adhesive film of thickness $1 \text{ mm}^{+0,1}_0$ mm

6.5 Glass plate

6.6 Stopwatch

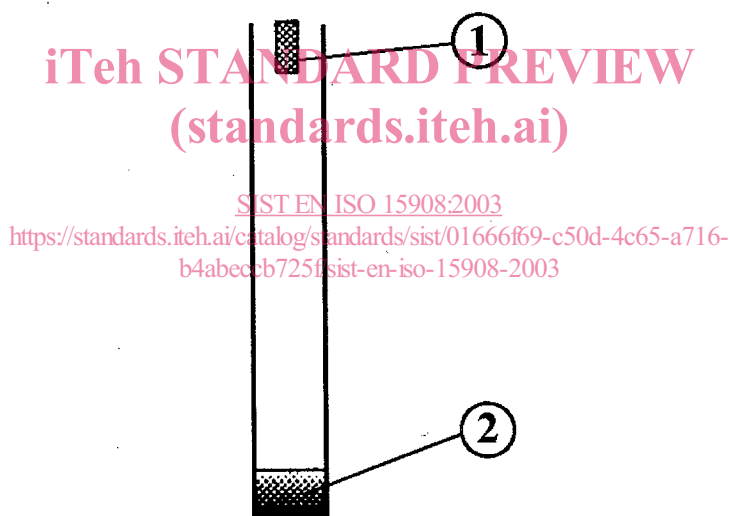
7 Test method

7.1 Condition the adhesive, the applicator and the test plate at $(23 \pm 2) ^\circ\text{C}$ and $(50 \pm 5) \%$ relative humidity for at least 6 h. The test plate and the adhesive applicator shall be free of dirt and grease.

7.2 Take a representative sample of the adhesive to be tested as described in EN 1066 and examine and prepare it for testing as described in EN 1067.

7.3 After conditioning, pour the adhesive on to the glass plate and spread it using the adhesive applicator. An adhesive film of 1 mm thickness shall be obtained. Allow the adhesive film to dry for $(24 \pm 2) \text{ h}$ at $(23 \pm 2) ^\circ\text{C}$.

7.4 Remove the adhesive film from the glass plate, and cut it into small pieces with maximum edge length of 2 mm. Fill the test tube with the pieces of the adhesive film (Figure 1) to a depth of approximately 10 mm which is equivalent to $(50 \pm 5) \text{ mg}$ adhesive. A piece, approximately 10 mm length, of indicator paper is placed in the top of the test tube. Prepare three test tubes for each adhesive under test.



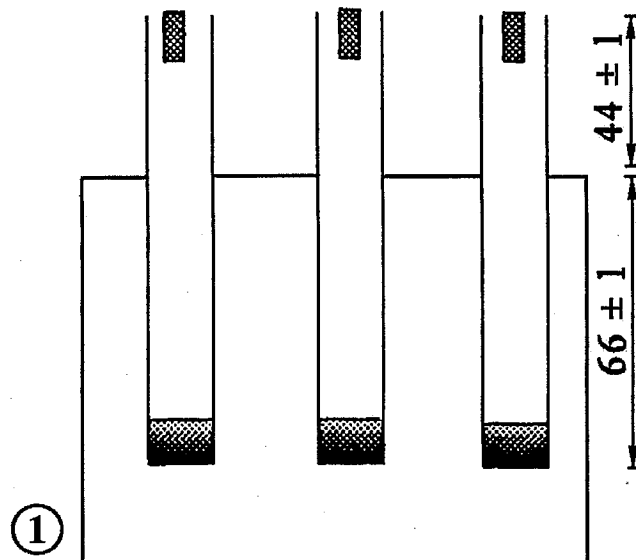
Key

- 1 Indicator paper
- 2 Sample adhesive (film pieces), approximately 10 mm length

Figure 1 — Test tube

7.5 Bring the heating block to $(200 \pm 0,5) ^\circ\text{C}$. Place the test tubes in the heating block and immediately start the stopwatch. The test tubes shall be $(66 \pm 1) \text{ mm}$ in the heating block and $(44 \pm 1) \text{ mm}$ above the heating block (Figure 2).

When the lower part of the indicator paper changes colour (pH = 3, from yellow to red) stop the stopwatch. Record the time in minutes to the nearest 0,5 min.

**Key**

1 Temperature ($200 \pm 0,5$) °C

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Figure 2 — Heating block with test tubes

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8 Expression of results

Express the thermal stability of the adhesive in minutes as the arithmetic mean of the three results.

9 Test report

The test report shall include:

- a) a reference to this European Standard;
- b) the type and identification of the adhesive tested;
- c) the thermal stability recorded for each test and the arithmetic mean;
- d) any modification to the procedure described in this standard, and any circumstances which may have affected the results;
- e) the date of test.