



SLOVENSKI STANDARD
SIST EN ISO 8496:2004
01-november-2004

BUXca Yý U
SIST EN 10237:1998

Metalski materiali - cevica - preskušanje v obročni napetosti (ISO 8496:1998)

Metallic materials - Tube - Ring tensile test (ISO 8496:1998)

Metallische Werkstoffe - Rohr - Ringzugversuch (ISO 8496:1998)

Matériaux métalliques - Tubes - Essai de traction sur anneaux (ISO 8496:1998)

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Ta slovenski standard je istoveten z: EN ISO 8496:2004

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ICS:

77.040.10 Mehansko preskušanje kovin Mechanical testing of metals

SIST EN ISO 8496:2004

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 8496

July 2004

ICS 77.040.10

Supersedes EN 10237:1993

English version

Metallic materials - Tube - Ring tensile test (ISO 8496:1998)

Matériaux métalliques - Tubes - Essai de traction sur anneaux (ISO 8496:1998)

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This European Standard was approved by CEN on 1 July 2004.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN ISO 8496:2004 (E)**Foreword**

The text of ISO 8496:1998 has been prepared by Technical Committee ISO/TC 164 "Mechanical testing of metals" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 8496:2004 by Technical Committee EC/ISS/TC 29 "Steel tubes and fittings for steel tubes", the secretariat of which is held by UNI.

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 January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.

This document supersedes EN 10237:1993.

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

Endorsement notice

The text of ISO 8496:1998 has been approved by CEN as EN ISO 8496:2004 without any modifications.

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INTERNATIONAL STANDARD

ISO
8496

Second edition
1998-11-01

Metallic materials — Tube — Ring tensile test

Matériaux métalliques — Tubes — Essai de traction sur anneaux

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Reference number
ISO 8496:1998(E)

ISO 8496:1998(E)**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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 8496 was prepared by Technical Committee ISO/TC 164, *Mechanical testing of metals*, Subcommittee SC 2, *Ductility testing*.

This second edition cancels and replaces the first edition (ISO 8496:1986), of which it constitutes a technical revision.

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Metallic materials — Tube — Ring tensile test

1 Scope

This International Standard specifies a method for a ring tensile test of tubes to reveal surface and internal defects by subjecting the test piece to strain until fracture occurs. This test may also be used to assess the ductility of tubes.

The ring tensile test is applicable to tubes having an outside diameter exceeding 150 mm and a wall thickness no greater than 40 mm. The inside diameter shall be greater than 100 mm.

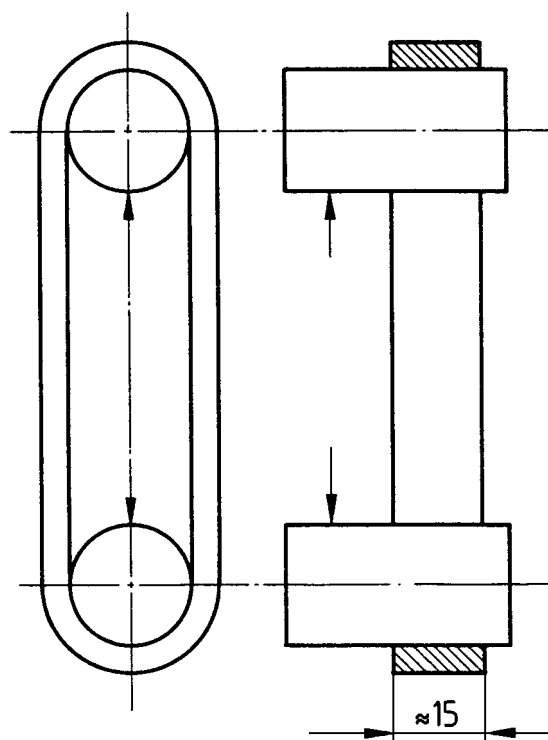
2 Principle

Subjecting a ring cut from the end of a tube to strain in the circumferential direction until fracture occurs.

3 Apparatus

3.1 Two circular pins, of equal diameter with parallel axes, and movable in relation to each other while still remaining parallel.

In principle, the diameter of the pins shall be the minimum permissible from strength considerations but, provided that the inside diameter of the tube allows, should be at least 3 times the wall thickness of the tube to be tested (see figure 1).



Dimensions in millimetres

Figure 1

4 Test piece

4.1 The test piece shall be a ring cut from the tube with the end faces perpendicular to the axis.

4.2 The length of the test piece (width of the ring) shall be approximately 15 mm. If the thickness exceeds 15 mm, the length of the test piece may be equal to the thickness.

4.3 The ends of the test piece shall be free from burrs. The edges may be rounded by filing or chamfered by other methods.

NOTE — Non-rounded or non-chamfered edges are permissible, if the test result meets the test requirements.

5 Procedure

5.1 In general, the test shall be carried out at ambient temperature within the limits of 10 °C to 35 °C. The test carried out under controlled conditions shall be made at a temperature of 23 °C ± 5 °C.

5.2 Place the ring cut from the tube over the pins. Subject the ring to strain by moving the pins away from each other at a specified rate until it fractures.

In cases of dispute, the rate shall not exceed 5 mm/s.

5.3 Interpretation of the ring tensile test shall be carried out in accordance with the requirements of the relevant product standard. When these requirements are not specified, the test piece shall be considered to have passed the test if no cracks are visible without the use of magnifying aids.

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6 Test report

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A test report shall be provided when so specified in the relevant product standard. In this case, the test report shall include at least the following information:

- a) reference to this International Standard, i.e. ISO 8496;
- b) identification of the test piece;
- c) dimensions of the test piece;
- d) result of the test.