

**Metallic materials - Tube - Ring tensile test (ISO
8496:2013)**

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NATIONAL FOREWORD

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ICS 77.040.10

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English Version

Metallic materials - Tube - Ring tensile test (ISO 8496:2013)

Matériaux métalliques - Tubes - Essai de traction sur
anneaux (ISO 8496:2013)

Metallische Werkstoffe - Rohr - Ringzugversuch (ISO
8496:2013)

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Foreword

This document (EN ISO 8496:2013) has been prepared by Technical Committee ISO/TC 164 "Mechanical testing of metals" in collaboration with Technical Committee ECISS/TC 110 "Steel tubes, and iron and steel fittings" 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of an identical text or by endorsement, at the latest by May 2014, and conflicting national standards shall be withdrawn at the latest by May 2014.

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 ISO 8496:2004.

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Endorsement notice

The text of ISO 8496:2013 has been approved by CEN as EN ISO 8496:2013 without any modification.

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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

Use **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

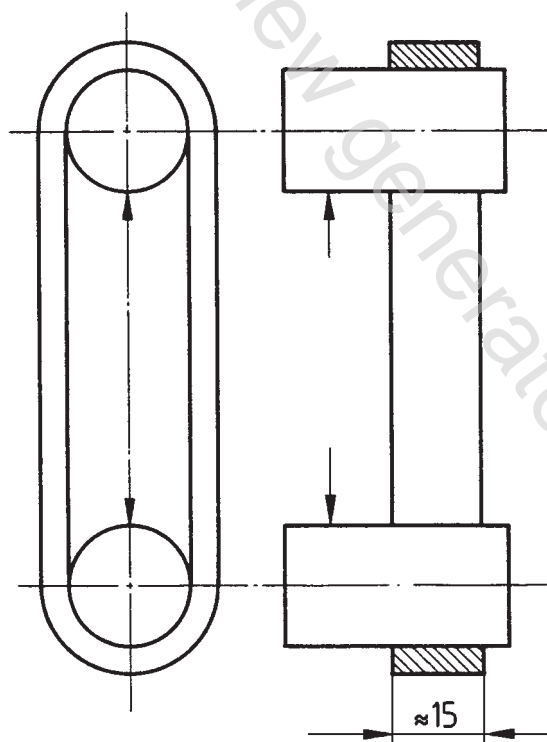


Figure 1