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# International Standard



# 8496

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## **Metallic materials — Tube — Ring tensile test**

*Matériaux métalliques — Tubes — Essai de traction sur anneaux*

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**Descriptors :** metals, metal tubes, tests, tension tests, ring tests.

## Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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

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## Metallic materials — Tube — Ring tensile test

### 1 Scope and field of application

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 wall thickness not greater than 40 mm. The inside diameter shall be greater than 100 mm.

### 2 Principle

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

### 3 Testing equipment

The testing equipment shall consist basically of two circular pins of equal diameter with parallel axes which shall be 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 the figure).

### 4 Test piece

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

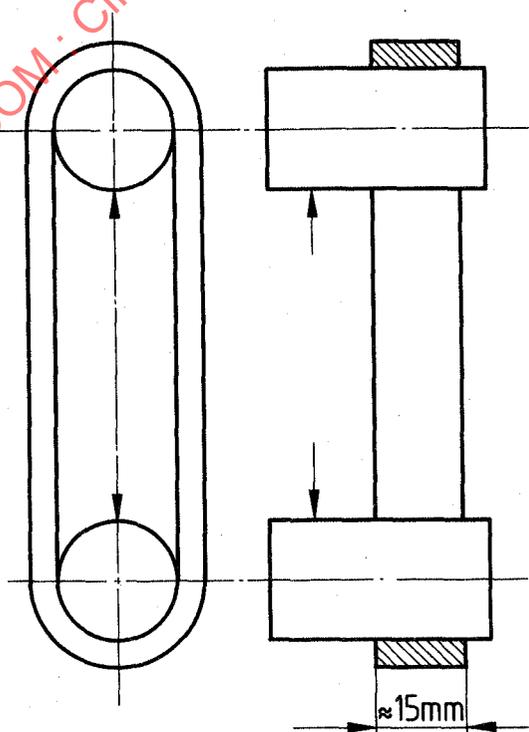


Figure — Test arrangement