

Metalliske materialer
Rør
Flatningsprøving
(ISO 8492:1998)

Metallic materials
Tube
Flattening test
(ISO 8492:1998)

Nasjonalt forord

Den engelskspråklige versjonen av europeisk standard EN ISO 8492:2004 er fastsatt som Norsk Standard NS-EN ISO 8492:2004.

National foreword

The English language version of European Standard EN ISO 8492:2004 has been adopted as Norwegian Standard NS-EN ISO 8492:2004.

English version

Metallic materials - Tube - Flattening test (ISO 8492:1998)

Matériaux métalliques - Tubes - Essai d'aplatissement (ISO 8492:1998)

Metallische Werkstoffe - Rohr - Ringfaltversuch (ISO 8492:1998)

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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

The text of ISO 8492:1998 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 8492:2004 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of an identical text or by endorsement, at the latest by January 2005, and conflicting national standards shall be withdrawn at the latest by January 2005.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 10233:1993.

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 8492:1998 has been approved by CEN as EN ISO 8492:2004 without any modifications.

Metallic materials — Tube — Flattening test

1 Scope

This International Standard specifies a method for determining the ability of metallic tubes of circular cross-section to undergo plastic deformation by flattening. It may also be used to reveal the defects in the tubes.

This International Standard is applicable to tubes having an outside diameter no greater than 600 mm and a thickness no greater than 15 % of the outside diameter. The range of the outside diameter or thickness, for which this International Standard is applicable may be more exactly specified in the relevant product standard.

2 Symbols, designations and units

Symbols, designations and units for the flattening test are given in table 1 and are shown in figure 1.

Table 1

Symbol	Designation	Unit
a^a	Wall thickness of the tube	mm
b	Inside width of flattened test piece	mm
D	Outside diameter of the tube	mm
H	Distance between platens measured under load	mm
L	Length of the test piece	mm

^a The symbol T is also used in steel tube standards.

3 Principle

Flattening the end of a tube or a test piece of specified length, cut from a tube in a direction perpendicular to the longitudinal axis of the tube, until the distance between platens measured under load in the direction of flattening reaches a value specified in the relevant product standard [see figure 1, a) and b)].

In the case of close flattening, the internal surfaces of the test piece shall be in contact over at least half of the internal width b of the flattened test piece standard [see figure 1 c)].

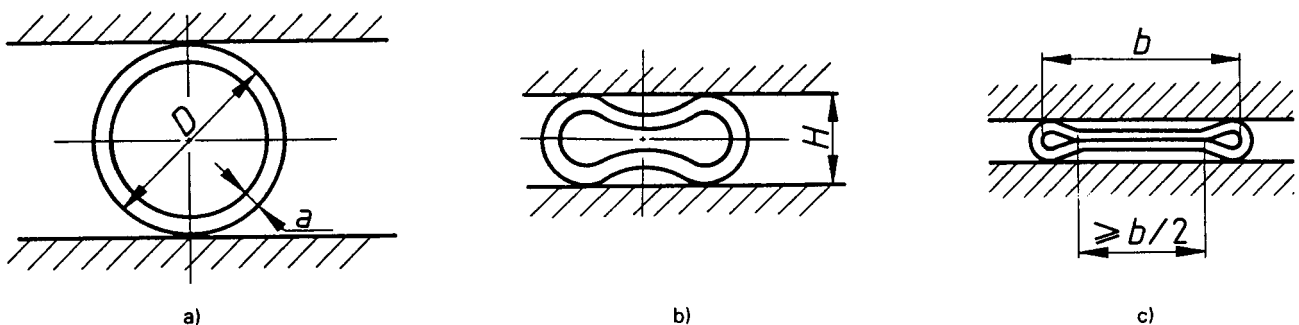


Figure 1