

**METALSETE MATERJALIDE PURUSTAVAD
KATSETUSED. MURDEKATSE**

**Destructive tests on welds in metallic materials -
Fracture test (ISO 9017:2001)**

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

See Eesti standard EVS-EN ISO 9017:2013 sisaldab Euroopa standardi EN ISO 9017:2013 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 9017:2013 consists of the English text of the European standard EN ISO 9017:2013.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 14.08.2013.	Date of Availability of the European standard is 14.08.2013.
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ICS 25.160.40

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English Version

Destructive tests on welds in metallic materials - Fracture test (ISO 9017:2001)

Essais destructifs des soudures sur matériaux métalliques -
Essai de texture (ISO 9017:2001)

Zerstörende Prüfung von Schweißverbindungen an
metallischen Werkstoffen - Bruchprüfung (ISO 9017:2001)

This European Standard was approved by CEN on 8 August 2013.

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Foreword

The text of ISO 9017:2001 has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 9017:2013 by Technical Committee CEN/TC 121 "Welding" the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by February 2014, and conflicting national standards shall be withdrawn at the latest by February 2014.

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Endorsement notice

The text of ISO 9017:2001 has been approved by CEN as EN ISO 9017:2013 without any modification.

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Destructive tests on welds in metallic materials — Fracture test

1 Scope

This International standard specifies the sizes of test specimen and the procedures for carrying out fracture tests in order to obtain information about types, sizes and distribution of internal imperfections such as porosities, cracks, lack of fusion, lack of penetration and solid inclusions on the fracture surface.

This International Standard applies to metallic materials in all forms of product with joints made by any fusion welding process with a thickness greater or equal to 2 mm.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 5817:—¹⁾, *Welding — Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) — Quality levels for imperfections.*

ISO 10042, *Arc-welded joints in aluminium and its weldable alloys — Guidance on quality levels for imperfections.*

EN 970, *Non-destructive examination of fusion welds — Visual examination.*

3 Terms and definitions

For the purposes of this International Standard, the following terms and definitions apply.

3.1 examination length

L_f
length of the test specimen measured along the weld axis between any side notches

See Figure 6.

3.2 total examination length

ΣL_f
sum of the lengths of all the test specimens comprising the test piece, measured along the weld axis, of the fracture faces between the side notches of the test specimens

See Figure 6.

1) To be published. (Revision of ISO 5817:1992)