

**Destructive tests on welds in metallic materials -
Longitudinal tensile test on weld metal in fusion welded
joints (ISO 5178:2001)**

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN ISO 5178:2011 sisaldab Euroopa standardi EN ISO 5178:2011 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 31.03.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 02.03.2011.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN ISO 5178:2011 consists of the English text of the European standard EN ISO 5178:2011.

This standard is ratified with the order of Estonian Centre for Standardisation dated 31.03.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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English Version

Destructive tests on welds in metallic materials - Longitudinal tensile test on weld metal in fusion welded joints (ISO 5178:2001)

Essais destructifs des soudures sur matériaux métalliques -
Essai de traction longitudinale du métal fondu des
assemblages soudés par fusion (ISO 5178:2001)

Zerstörende Prüfung von Schweißverbindungen an
metallischen Werkstoffen - Längszugversuch an
Schweißgut in Schmelzschweißverbindungen (ISO
5178:2001)

This European Standard was approved by CEN on 13 February 2011.

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 CEN-CENELEC Management Centre or to any CEN member.

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

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Foreword

The text of ISO 5178:2001 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 5178:2011 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 September 2011, and conflicting national standards shall be withdrawn at the latest by September 2011.

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.

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Endorsement notice

The text of ISO 5178:2001 has been approved by CEN as a EN ISO 5178:2011 without any modification.

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Destructive tests on welds in metallic materials — Longitudinal tensile test on weld metal in fusion welded joints

1 Scope

This International Standard specifies the sizes of test specimens and the test procedure for carrying out longitudinal tensile tests on cylindrical test specimens in order to determine the mechanical properties of weld metal in a fusion welded joint.

This International Standard applies to metallic materials in all forms of product with joints made by any fusion welding process, having joint sizes that are sufficient to obtain cylindrical test specimens with dimensions in accordance with ISO 6892.

Unless specified otherwise for specific points in this International Standard, the general principles of ISO 6892 apply.

2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, this publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document 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 6892, *Metallic materials — Tensile testing at ambient temperature.*

3 Principle

An increasing tensile load is continuously applied until rupture occurs in a cylindrical test specimen taken longitudinally from the weld metal in a welded joint.

Unless otherwise specified, the test shall be carried out at ambient temperature (23 ± 5) °C.

4 Symbols and abbreviated terms

The symbols and abbreviated terms to be used for the longitudinal tensile tests are specified in ISO 6892.