

**Welding consumables - Test methods
and quality requirements - Part 2:
Supplementary methods and conformity
assessment of consumables for steel,
nickel and nickel alloys**

Welding consumables - Test methods and quality requirements - Part 2: Supplementary methods and conformity assessment of consumables for steel, nickel and nickel alloys

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14532-2:2005 sisaldab Euroopa standardi EN 14532-2:2004 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 25.01.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14532-2:2005 consists of the English text of the European standard EN 14532-2:2004.</p> <p>This document is endorsed on 25.01.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This document applies to welding consumables for which supplementary qualification is required. It contains the technical requirements to be fulfilled. These supplementary tests apply for welding consumables, where the primary qualification is available in accordance with EN 14532-1. The supplementary tests can be carried out at any time without the need to repeat the primary tests. This document describes the testing methods, the amount of testing and the requirements for supplementary qualification of welding consumables.</p>	<p>Scope: This document applies to welding consumables for which supplementary qualification is required. It contains the technical requirements to be fulfilled. These supplementary tests apply for welding consumables, where the primary qualification is available in accordance with EN 14532-1. The supplementary tests can be carried out at any time without the need to repeat the primary tests. This document describes the testing methods, the amount of testing and the requirements for supplementary qualification of welding consumables.</p>
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Welding consumables - Test methods and quality requirements - Part 2: Supplementary methods and conformity assessment of consumables for steel, nickel and nickel alloys

Produits consommables pour le soudage - Méthodes
d'essai et exigences de qualité - Partie 2: Méthodes
complémentaires et évaluation de la conformité des
produits consommables pour l'acier, le nickel et les alliages
de nickel

Schweißzusätze - Prüfverfahren und
Qualitätsanforderungen - Teil 2: Ergänzende Prüfungen
und Konformitätsbewertung von Schweißzusätzen für
Stahl, Nickel und Nickellegierungen

This European Standard was approved by CEN on 14 October 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.

CEN members are the national standards bodies of 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.



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Foreword

This document (EN 14532-2:2004) has been prepared 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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document consists of the following parts:

EN 14532-1, *Welding consumables — Test methods and quality requirements — Part 1: Primary methods and conformity assessment of consumables for steel, nickel and nickel alloys.*

EN 14532-2, *Welding consumables — Test methods and quality requirements — Part 2: Supplementary methods and conformity assessment of consumables for steel, nickel and nickel alloys.*

EN 14532-3, *Welding consumables — Test methods and quality requirements — Part 3: Conformity assessment of wire electrodes, wires and rods for welding of aluminium alloys.*

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.

Introduction

Responsibility for identifying the extent of qualification lies with the manufacturer/supplier on the basis of his assessment of market requirements.

A product that has been qualified in accordance with the primary methods e.g. in EN 14532-1 may need evaluation through one or more supplementary tests for some fields of application.

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1 Scope

This document applies to welding consumables for which supplementary qualification is required. It contains the technical requirements to be fulfilled.

These supplementary tests apply for welding consumables, where the primary qualification is available in accordance with EN 14532-1. The supplementary tests can be carried out at any time without the need to repeat the primary tests.

This document describes the testing methods, the amount of testing and the requirements for supplementary qualification of welding consumables.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 876, *Destructive tests on welds in metallic materials — Longitudinal tensile test on weld metal in fusion welded joints.*

EN 1597-1:1997, *Welding consumables — Test methods — Part 1: Test piece for all-weld metal test specimens in steel, nickel and nickel alloys.*

EN 10002-1, *Metallic materials — Tensile testing — Part 1: Methods of test at ambient temperature.*

EN 10002-5, *Metallic materials — Tensile testing — Part 5: method of testing at elevated temperature.*

EN 10291, *Metallic materials — Uniaxial creep testing in tension — Method of test.*

EN 14532-1:2004, *Welding consumables — Test methods and quality requirements — Part 1: Primary methods and conformity assessment of consumables for steel, nickel and nickel alloys.*

prEN 14700, *Welding consumables — Welding consumables for hard-facing.*

EN ISO 3690, *Welding and allied processes — Determination of hydrogen content in ferritic arc weld metal (ISO 3690:2000).*

CR ISO 15608:2000, *Welding — Guidelines for a metallic material grouping system (ISO/TR 15608:2000).*

3 Terms and definitions

For the purposes of this document, the terms and definitions of EN 14532-1:2004 apply.

4 Supplementary tests

4.1 General

An overview of supplementary tests is listed in Annex A.