

SLOVENSKI STANDARD SIST EN ISO 24598:2008 01-april-2008

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Welding consumables - Solid wire electrodes, tubular cored electrodes and electrode/flux combinations for submerged arc welding of creep-resisting steels - Classification (ISO 24598:2007)

Schweißzusätze - Drahtelektroden, Fülldrahtelektroden und Draht-Pulver-Kombinationen für das Unterpulverschweißen von warmfesten Stählen - Einteilung (ISO 24598:2007)

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Produits consommables pour le soudage - Fils-électrodes pleins, fils-électrodes fourrés et couples fil-flux pour le soudage à <u>l'arc sous flux des</u> aciers résistant au fluage - Classification (ISO 24598:2007) itch ai/catalog/standards/sist/f8f85ee9-dd5c-423c-8ee6-d621b452cc71/sist-en-iso-24598-2008

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25.160.20

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iTeh STANDARD PREVIEW (standards.iteh.ai)

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

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EN ISO 24598

ICS 25.160.20

English Version

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iTeh STANDARD PREVIEW (standards.iteh.ai)

Foreword

This document (EN ISO 24598:2007) has been prepared by Technical Committee ISO/TC 44 "Welding and allied processes" in collaboration with 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of an identical text or by endorsement, at the latest by June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

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The text of ISO 24598:2007 has been approved by CEN as a EN ISO 24598:2007 without any modification.

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INTERNATIONAL STANDARD

ISO 24598

First edition 2007-11-15

Welding consumables — Solid wire electrodes, tubular cored electrodes and electrode/flux combinations for submerged arc welding of creep-resisting steels — Classification

Teh ST électrodes fourrés et couples fil-flux pour le soudage — Fils-électrodes pleins, filsdes aciers résistant au fluage — Classification (Standards.iten.al)



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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ISO 24598 was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 3, *Welding consumables*.

Requests for official interpretations of any aspect of this International Standard should be directed to the Secretariat of ISO/TC 44/SC 3 via your national standards body. A listing of these bodies can be found at http://www.iso.org.

Introduction

This International Standard provides a classification in order to designate solid wire electrodes in terms of their chemical composition, solid wire electrodes and tubular cored electrodes in terms of the deposit composition obtained with a particular submerged arc flux and, where required, electrode-flux combinations in terms of the yield strength, tensile strength and elongation of the all-weld metal deposit. The ratio of yield to tensile strength of weld metal is generally higher than that of parent metal. Users should note that matching weld metal yield strength to parent metal yield strength will not necessarily ensure that the weld metal tensile strength matches that of the parent material. Where the application requires matching tensile strength, therefore, selection of the consumable should be made by reference to column 3 of Table 1A or Table 1B, as appropriate.

Although combinations of wire electrodes and fluxes supplied by individual companies may have the same grading, the individual wire electrodes and fluxes from different companies are not interchangeable unless verified in accordance with this International Standard.

It should be noted that the mechanical properties of all-weld metal test pieces used to classify the wire electrodes will vary from those obtained in production joints because of differences in welding procedure such as electrode size, welding position and material composition.

This International Standard recognizes that there are two somewhat different approaches in the global market to classifying a given wire electrode, tubular cored electrode or electrode/flux combination, and allows for either or both to be used to suit a particular market need. Application of either type of classification designation (or of both where suitable) identifies a product as classified in accordance with this International Standard. The classification in accordance with system A is mainly based on EN 12070:1999. The classification in accordance with system B is mainly based upon standards used around the Pacific Rim. Future revisions will aim to merge the two approaches into a single classification system.

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