

SLOVENSKI STANDARD SIST EN ISO 24598:2012

01-september-2012

Nadomešča: SIST EN ISO 24598:2008

Dodajni materiali za varjenje - Žične elektrode, polnjene žice in kombinacije žic in praškov za varjenje pod praškom jekel, odpornih proti lezenju - Razvrstitev (ISO 24598:2012)

Schweißzusätze - Drahtelektroden, Fülldrahtelektroden und Draht-Pulver-Kombinationen für das Unterpulverschweißen von warmfesten Stählen - Einteilung (ISO 24598:2012)

https://standards.iteh.ai/catalog/standards/sist/3c7dce87-ee22-4438-abd5-

Produits consommables pour le soudage Fils-électrodes pleins, fils-électrodes fourrés et couples électrodes-flux pour le soudage à l'arc sous flux des aciers résistant au fluage - Classification (ISO 24598:2012)

Ta slovenski standard je istoveten z: EN ISO 24598:2012

ICS:

25.160.20 Potrošni material pri varjenju Welding consumables

SIST EN ISO 24598:2012 en,fr

SIST EN ISO 24598:2012

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 24598:2012

https://standards.iteh.ai/catalog/standards/sist/3c7dce87-ee22-4438-abd5-ea8b6a5e495f/sist-en-iso-24598-2012

EUROPEAN STANDARD

EN ISO 24598

NORME EUROPÉENNE EUROPÄISCHE NORM

May 2012

ICS 25.160.20

Supersedes EN ISO 24598:2007

English Version

Welding consumables - Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of creep-resisting steels - Classification (ISO 24598:2012)

Produits consommables pour le soudage - Fils-électrodes pleins, fils-électrodes fourrés et couples électrodes-flux pour le soudage à l'arc sous flux des aciers résistant au fluage - Classification (ISO 24598:2012)

Schweißzusätze - Drahtelektroden, Fülldrahtelektroden und Draht-Pulver-Kombinationen für das Unterpulverschweißen von warmfesten Stählen - Einteilung (ISO 24598:2012)

This European Standard was approved by CEN on 13 April 2012.

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.

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 CEN-CENELEC Management Centre has the same status as the official versions.

SIST EN ISO 24598:2012

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 24598:2012 (E)

Contents	Pag
Foreword	

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 24598:2012 https://standards.iteh.ai/catalog/standards/sist/3c7dce87-ee22-4438-abd5-ea8b6a5e495f/sist-en-iso-24598-2012

EN ISO 24598:2012 (E)

Foreword

This document (EN ISO 24598:2012) 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 November 2012, and conflicting national standards shall be withdrawn at the latest by November 2012.

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.

This document supersedes EN ISO 24598:2007.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

iTeh STANDARD PREVIEW

(stan Endorsement notice)

The text of ISO 24598:2012 has been approved by CEN as a EN ISO 24598:2012 without any modification.

https://standards.iteh.ai/catalog/standards/sist/3c7dce87-ee22-4438-abd5-ea8b6a5e495f/sist-en-iso-24598-2012

SIST EN ISO 24598:2012

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 24598:2012

https://standards.iteh.ai/catalog/standards/sist/3c7dce87-ee22-4438-abd5-ea8b6a5e495f/sist-en-iso-24598-2012

SIST EN ISO 24598:2012

INTERNATIONAL STANDARD

ISO 24598

Second edition 2012-05-01

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

iTeh ST électrodes fourrés et couples électrodes flux pour le soudage à l'arc sous flux des aciers résistant au fluage — Classification (Standards.iteh.al)

SIST EN ISO 24598:2012 https://standards.iteh.ai/catalog/standards/sist/3c7dce87-ee22-4438-abd5-ea8b6a5e495f/sist-en-iso-24598-2012



ISO 24598:2012(E)

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN ISO 24598:2012 https://standards.iteh.ai/catalog/standards/sist/3c7dce87-ee22-4438-abd5-ea8b6a5e495f/sist-en-iso-24598-2012



COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents Page

Fore	word	iv
Intro	duction	v
1	Scope	1
2	Normative references	
3	Classification	2
4 4.1	Symbols and requirements	
4.2	Symbol for the product/process	
4.3	Symbols for the tensile properties of the all-weld metal deposit	
4.4	Symbols for impact properties of all-weld metal deposits	
4.5	Symbol for type of welding flux	5
4.6	Symbol for the chemical composition of solid wire electrodes and of all-weld metal	
	deposits	5
5	Mechanical tests	9
5.1	Preheating, interpass and post-weld heat treatment temperatures	9
5.2	Welding conditions and pass sequence	12
6	Chemical analysis(standards.iteh.ai)	13
7	Rounding procedure	14
8	Retests SIST EN ISO 24598:2012	14
9	https://standards.iteh.ai/catalog/standards/sist/3c7dce87-ee22-4438-abd5- Technical delivery conditions	15
10	Examples of designation	
Riblia	ography	

ISO 24598:2012(E)

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

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

This second edition cancels and replaces the first edition (ISO 24598:2007), which has been technically revised. (standards.iteh.ai)

The main changes compared to the previous edition are:

- a) the composition of 9C1MV is modified on the Braide of Table 3 (former Table 4) and Table 4 (former Table 5);
- b) different test pieces in accordance with ISO 15792-1 are specified for side A and B in Clauses 5A and 5B, respectively.

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 complete listing of these bodies can be found at www.iso.org.

ISO 24598:2012(E)

Introduction

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^[2]. The classification in accordance with system B is mainly based upon standards used around the Pacific Rim.

This International Standard provides a classification system for 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 does 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 can have the same classification, 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 vary from those obtained in production joints because of differences in welding procedure, such as electrode size, welding position and material composition. 2012

s://standards.iteh.ai/catalog/standards/sist/3c7dce87-ee22-4438-abd5-ea8b6a5e495f/sist-en-iso-24598-2012