

SLOVENSKI STANDARD SIST EN 4344:2002

01-januar-2002

Aerospace series - Steel FE-WM1002 (X13Cr13) - Filler metal for welding - Wire and rod

Aerospace series - Steel FE-WM1002 (X13Cr13) - Filler metal for welding - Wire and rod

Luft- und Raumfahrt - Stahl FE-WM1002 (X13Cr13) - Schweißzusatz - Draht und Stäbe

Série aérospatiale - Acier FE-WM1002 (X13Cr13) - Métal d'apport de soudage - Fil et baguette (standards.iteh.ai)

Ta slovenski standard je istoveten z SIST EN 4344:2001 https://standards.iten.a/catalog/standards/sist/10083104-d009-44ab-aff2-

ccacb8e59094/sist-en-4344-2002

ICS:

49.025.10 Jekla Steels

SIST EN 4344:2002 en

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<u>SIST EN 4344:2002</u> https://standards.iteh.ai/catalog/standards/sist/f0d83104-d009-44ab-aff2ccacb8e59094/sist-en-4344-2002

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM **EN 4344**

June 2001

ICS 49.025.10

English version

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This European Standard was approved by CEN on 2 May 2001.

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 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After inquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

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 December 2001, and conflicting national standards shall be withdrawn at the latest by December 2001.

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According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

0 Introduction

This standard is part of the series of EN metallic material standards for aerospace applications. The general organization of this series is described in EN 4258.

This standard has been prepared in accordance with EN 4500-5.

1 Scope

This standard specifies the requirements relating to:

Steel FE-WM1002 (X13Cr13)
Filler metal for welding
Wire and rod

for aerospace applications.

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 2043	Aerospace series – Metallie materials 000 General requirements for semi-finished product qualification (excluding forgings and castings) 31)04-d009-44ab-aff2-ccacb8e59094/sist-en-4344-2002
EN 3879	Aerospace series – Metallic materials – Filler metal for welding – Technical specification 1)
EN 4258	Aerospace series – Metallic materials – General organization of standardization – Links between types of EN standards and their use
EN 4500-5	Aerospace series – Metallic materials – Rules for drafting and presentation of material standards – Part 5: Specific rules for steel 1)

¹⁾ Published as AECMA Prestandard at the date of publication of this standard

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1	Material designation			Steel FE-WM1002 (X13Cr13)											
2	Chemical composition	Element	С	Si	Mn	Р	S	Cr	Мо	Ni	AI	Cu	N ₂	Sn	Fe
	%	min.	0,10	_	_	-	-	11,5	-	-	ı	-	-	-	Base
		max.	0,15	1,00	1,00	0,025	0,015	13,5	0,50	0,75	0,05	0,50	0,08	0,05	base
3	Method of melting			Air melted											
4.1	Form Wire and rod														
4.2	Method of product		Cold drawn												
4.3	Limit dimension(s) mm			_											
5	Technical specifica		EN 3879												

6.1	Delivery condition	Cold drawn and annealed
	Heat treatment	_
6.2	Delivery condition code	U
7	Use condition	Delivery condition
	Heat treatment	-

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8.1	Te	est sample(s)			SIST EN 4344:2002 -
8.2	Te	est piece(s)		ht	tps://standards.iteh.a/catalog/standards/sist/f0d83104-d009-44ab-aft2- ccacb8e59094/sist-en-4344-2002
8.3	He	eat treatment			_
9	Di	mensions concerne	ed	mm	-
10	Th ea	ickness of cladding ch face	g on	%	-
11	Di	rection of test piece)		-
12		Temperature	θ	°C	-
13		Proof stress	R _{p0,2}	MPa	-
14	Т	Strength	R _m	MPa	-
15		Elongation	Α	%	-
16		Reduction of area	Z	%	-
17	7 Hardness				-
18	Shear strength R _c MPa		MPa	-	
19	9 Bending k –		-	-	
20	0 Impact strength			-	
21		Temperature	θ	°C	-
22		Time		h	_
23	С	Stress	σα	MPa	-
24		Elongation	а	%	-
25		Rupture stress	σR	MPa	-
26		Elongation at rupture	Α	%	-
27	27 Notes (see line 98)				-

	<u></u>		LIN 4544.2001
44	External defects	_	See EN 3879
57	Residual stress	-	See EN 3879
61	Internal defects	-	See EN 3879
82	Batch uniformity (Material verification)	_	See EN 3879
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95		_	See EN 3879
96	Dimensional inspection	_	See EN 3879
98		_	_
99	Typical use	_	-

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100	_	Product qualification	_	See EN 2043
				Qualification programme to be agreed between manufacturer and purchaser.
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