

## SLOVENSKI STANDARD SIST EN 4342:2002

01-januar-2002

Aerospace series - Titanium TI-W99001 - Filler metal for welding - Wire and rod

Aerospace series - Titanium TI-W99001 - Filler metal for welding - Wire and rod

Luft- und Raumfahrt - Titan TI-W99001 - Schweißzusatz - Draht und Stäbe

Série aérospatiale - Titane TI-W99001 - Métal d'apport de soudage - Fil et baguette

Ta slovenski standard je istoveten z: EN 4342:2001

SIST EN 4342:2002

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ICS:

49.025.30 Titan Titanium

SIST EN 4342:2002 en

**SIST EN 4342:2002** 

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EUROPEAN STANDARD NORME EUROPÉENNE

**EUROPÄISCHE NORM** 

EN 4342

June 2001

ICS 49.025.30

#### English version

# Aerospace series - Titanium TI-W99001 - Filler metal for welding - Wire and rod

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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.

#### SIST EN 4342:2002

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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.

(standards.iteh.ai)

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, 341/sist-en-4342-2002

#### 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 4500-4.

#### 1 Scope

This standard specifies the requirements relating to:

Titanium TI-W99001 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 fext 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 – Metallic materials 2002 General requirements for semi-finished product qualification (excluding forgings and castings) 1032-dff0-42e0-a363-15357ae12541/sist-en-4342-2002
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 4500-4	Aerospace series – Metallic materials – Rules for drafting and presentation of material standards – Part 4: Specific rules for titanium and titanium alloys 1)

<sup>1)</sup> Published as AECMA Prestandard at the date of publication of this standard

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1	Material designation		Titanium TI-W99001								
2	Chemical	Elemen	+	0.	N <sub>2</sub>	H <sub>2</sub>	Fe	С	Others <sup>a</sup>		т:
	composition	Elemen	·	O <sub>2</sub>	142				Each	Total	Ti
	%	min.		ı	=	-	ı	ı	ı	1	Base
		max.		0,18	0,05	50 *)	0,20	0,08	0,10	0,40	Dase
3	Method of melting					Consum	able electrod	e vacuum ar	remelted		
4.1	Form						Wire	and rod			
4.2	Method of production						Cold	drawn			
4.3	Limit dimension(s) mm			-							
5	Technical specification						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	Те	est sample(s)			SIST EN 4342:2002 –
8.2	Те	est piece(s)		ht	ps://standards.iteh.ai/catalog/standards/sist/33171332-dff0-42e0-a363- 15357ae12541/sist-en-4342-2002
8.3	3 Heat treatment				-
9		mensions concerne		mm	-
10	Thickness of cladding on each face %		%	-	
11	11 Direction of test piece				-
12		Temperature	θ	°C	-
13		Proof stress	R <sub>p0,2</sub>	MPa	_
14	Т	Strength	R <sub>m</sub>	MPa	_
15		Elongation	Α	%	_
16		Reduction of area	Z	%	_
17	На	ardness			_
18	Sh	near strength	Rc	МРа	
19	Ве	ending	k	-	
20	10 Impact strength			i	
21		Temperature	θ	°C	
22		Time		h	-
23	С	Stress	σα	МРа	-
24		Elongation	а	%	-
25		Rupture stress	$\sigma_{R}$	MPa	_
26		Elongation at rupture	Α	%	-
27	No	otes (see line 98)			*) a

			EN 4342:2001
44	External defects	_	See EN 3879
57	Residual stress	_	See EN 3879
61	Internal defects	-	See EN 3879
82	Batch uniformity (Material verification)	ı	See EN 3879
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95	Marking inspection	_	See EN 3879
96	Dimensional inspection	-	See EN 3879
98	Notes	-	*) p.p.m. Determination not required for routine acceptance
99	Typical use	-	-

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(standards.iteh.ai)  SIST EN 4342:2002  https://standards.iteh.ai/catalog/standards/sist/33171332-dff0-42e0-a363-					Qualification programme to be agreed between manufacturer and purchaser.
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