



SLOVENSKI STANDARD

SIST EN 4250:2002

01-januar-2002

Aerospace series - Nickel base alloys NI-B41001 (NiCr19Si7B) - Filler metal for brazing - Amorphous foil

Aerospace series - Nickel base alloys NI-B41001 (NiCr19Si7B) - Filler metal for brazing - Amorphous foil

Luft- und Raumfahrt - Nickelbasislegierung NI-B41001 (NiCr19Si7B) - Hartlot in Form von amorpher Folie

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Série aérospatiale - Alliage base nickel NI-B41001 (NiCr19Si7B) - Métal d'apport de brasage - Feuillard amorphe

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Ta slovenski standard je istoveten z: EN 4250:2001

ICS:

49.025.15	Neželezove zlitine na splošno	Non-ferrous alloys in general
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SIST EN 4250:2002

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 4250

June 2001

ICS 49.025.15

English version

**Aerospace series - Nickel base alloys NI-B41001 (NiCr19Si7B) -
Filler metal for brazing - Amorphous foil**

Série aérospatiale - Alliage base nickel NI-B41001
(NiCr19Si7B) - Métal d'apport de brasage - Feuillard
amorphe

Luft- und Raumfahrt - Nickelbasislegierung NI-B41001
(NiCr19Si7B) - Hartlot in Form von amorpher Folie

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

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.

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 organisation of this series is described in EN 4258.

This standard has been prepared in accordance with EN 4500-6.

1 Scope

This standard specifies the requirements relating to:

Nickel base alloy NI-B41001 (NiCr19Si7B)
Filler metal for brazing
Amorphous foil

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 - Metallic materials - General requirements for semi-finished product qualification (excluding forgings and castings) ¹⁾
EN 3875	Aerospace series - Metallic materials - Filler metal for brazing - Technical specification ¹⁾
EN 4258	Aerospace series - Metallic materials - General organization of standardization - Links between types of EN standards and their use
EN 4500-6	Aerospace series - Metallic materials - Rules for drafting and presentation of material standards - Part 6: Specific rules for filler metals for brazing ¹⁾

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

1	Material designation		Nickel base braze alloy NI-B41001 (NiCr19Si7B)													
2	Chemical composition %	Element	C	Si	P	S	B	Cr	Al	Co	Fe	Se	Ti	Zr	Others	Ni
															Total	
		min.	–	7,0	–	–	1,0	18,5	–	–	–	–	–	–	–	–
max.	0,08	7,5	0,02	0,02	1,5	19,5	0,05	0,10	0,5	50 *)	0,05	0,05	0,05			
3	Method of melting		Air or inert gas or vacuum melted													
4.1	Form		Amorphous foil													
4.2	Method of production		Melt spun													
4.3	Limit dimension(s)	mm	–													
5	Technical specification		EN 3875													

6.1	Delivery condition		As manufactured												
	Heat treatment		–												
6.2	Delivery condition code		U												
7	Use condition		Delivery condition												
	Heat treatment		–												

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8.1	Test sample(s)		SIST EN 4250:2002 – https://standards.iteh.ai/catalog/standards/sist/61ca5fe4-021a-4927-903d-f1d70bd86ea4/sist-en-4250-2002												
8.2	Test piece(s)		–												
8.3	Heat treatment		–												
9	Dimensions concerned	mm	–												
10	Thickness of cladding on each face	%	–												
11	Direction of test piece		–												
12	Temperature	θ	°C	–											
13	Proof stress	$R_{p0,2}$	MPa	–											
14	T Strength	R_m	MPa	–											
15	Elongation	A	%	–											
16	Reduction of area	Z	%	–											
17	Hardness		–												
18	Shear strength	R_c	MPa	–											
19	Bending	k	–	–											
20	Impact strength		–												
21	Temperature	θ	°C	–											
22	Time		h	–											
23	Stress	σ_a	MPa	–											
24	Elongation	a	%	–											
25	Rupture stress	σ_R	MPa	–											
26	Elongation at rupture	A	%	–											
27	Notes (see line 98)		*)												

44	External defects	–	See EN 3875
53	Thermal analysis (Differential thermal analysis)	–	See EN 3875
		7	Liquidus: 1 150 °C Solidus: 1 065 °C
76	Wettability (Fusion test)	–	See EN 3875
79	Porosity	–	See EN 3875
81	Formability of joining materials (Flexibility test)		See EN 3875
82	Batch uniformity (Material verification)	–	See EN 3875
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95	Marking inspection	–	See EN 3875
96	Dimensional inspection	–	See EN 3875
98	Notes	–	*) p.p.m.
99	Typical use	–	Joining nickel and cobalt base alloys.

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