



SLOVENSKI STANDARD
oSIST prEN 3526:2021
01-junij-2021

Aeronavtika - Jeklo 15CrMoV6 (1.7334) - Taljeno na zraku - Utrjeno in mehko žarjeno - Pločevina in trakovi - $0,5 \text{ mm} \leq a \leq 6 \text{ mm}$ - $980 \text{ MPa} \leq R_m \leq 1180 \text{ MPa}$

Aerospace series - Steel 15CrMoV6 (1.7334) - Air melted - Hardened and tempered - Sheet and strip - $0,5 \text{ mm} \leq a \leq 6 \text{ mm}$ - $980 \text{ MPa} \leq R_m \leq 1180 \text{ MPa}$

Luft- und Raumfahrt - Stahl 15CrMoV6 (1.7334) - Lufterschmolzen - Gehärtet und angelassen - Blech und Band - $0,5 \text{ mm} \leq a \leq 6 \text{ mm}$ - $980 \text{ MPa} \leq R_m \leq 1180 \text{ MPa}$

Série aérospatiale - Acier 15CrMoV6 (1.7334) - Elaboré à l'air - Trempé et revenu - Tôles et bandes - $0,5 \text{ mm} \leq a \leq 6 \text{ mm}$ - $980 \text{ MPa} \leq R_m \leq 1180 \text{ MPa}$

<https://standards.iteh.ai/standards/sist/8f5309cd-4537-4ae4-bb26-682cbe9830b2/osist-prEN-3526-2021>

Ta slovenski standard je istoveten z: prEN 3526

ICS:

49.025.10 Jekla Steels

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 3526

April 2021

ICS 49.025.10

Will supersede EN 3526:2007

English Version

**Aerospace series - Steel 15CrMoV6 (1.7334) - Air melted -
Hardened and tempered - Sheet and strip - $0,5 \text{ mm} \leq a \leq$
 $6 \text{ mm} - 980 \text{ MPa} \leq R_m \leq 1\ 180 \text{ MPa}$**

Série aérospatiale - Acier 15CrMoV6 (1.7334) - Élaboré
à l'air - Trempé et revenu - Tôles et bandes - $0,5 \text{ mm} \leq$
 $a \leq 6 \text{ mm} - 980 \text{ MPa} \leq R_m \leq 1\ 180 \text{ MPa}$

Luft- und Raumfahrt - Stahl 15CrMoV6 (1.7334) -
Lufterschmolzen - Gehärtet und angelassen - Blech und
Band - $0,5 \text{ mm} \leq a \leq 6 \text{ mm} - 980 \text{ MPa} \leq R_m \leq 1\ 180 \text{ MPa}$

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee ASD-STAN.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN 3526:2021) has been prepared by the Aerospace and Defence Industries Association of Europe — Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 3526:2007.

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Introduction

This document 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 document has been prepared in accordance with EN 4500-005.

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1 Scope

This document specifies the requirements relating to:

Steel 15CrMoV6 (1.7334)
Air melted
Hardened and tempered
Sheet and strip
 $0,5 \text{ mm} \leq a \leq 6 \text{ mm}$
 $980 \text{ MPa} \leq R_m \leq 1\,180 \text{ MPa}$

for aerospace applications.

W.nr: 1.7334.

ASD-STAN designation: FE-PL1505.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2043, *Aerospace series — Metallic materials — General requirements for semi-finished product qualification (excluding forgings and castings)*

EN 2951, *Aerospace series — Metallic materials — Micrographic determination of content of non-metallic inclusions*

EN 4700-001, *Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 001: Plate, sheet and strip*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Requirements

See Table 1.

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Table 1 — Requirements for steel 15CrMoV6 (1.7334)

1	Material designation		Steel 15CrMoV6 (1.7334)								
2	Chemical composition %	Element	C	Si	Mn	P	S	Cr	Mo	Ni	Fe
		min.	0,12	—	0,80	—	—	1,25	0,80	0,20	Base
		max.	0,18	0,20	1,10	0,020	0,015	1,50	1,00	0,30	
3	Method of melting		Air melted								
4.1	Form		Sheet and strip								
4.2	Method of production		Rolled								
4.3	Limit dimension(s)	mm	$0,5 \leq a \leq 6$								
5	Technical specification		EN 4700-001								

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6.1	Delivery condition		Softened				Hardened and tempered				
	Heat treatment		—				955 °C ≤ θ ≤ 995 °C/OQ or AC + 615 °C ≤ θ ≤ 655 °C/AC				
6.2	Delivery condition code		A				U				
7	Use condition		Hardened and tempered				Delivery condition				
	Heat treatment		Delivery condition 955 °C ≤ θ ≤ 995 °C/OQ or AC + 615 °C ≤ θ ≤ 655 °C/AC				—				

Characteristics

8.1	Test sample(s)		See EN 4700-001								
8.2	Test piece(s)		See EN 4700-001								
8.3	Heat treatment		Softened				Use condition				
9	Dimensions concerned	mm	$0,5 \leq a \leq 6$				$0,5 \leq a \leq 6$				
10	Thickness of cladding on each face	%	—				—				

11	Direction of test piece			—	LT
12	Temperature	θ	°C	—	Ambient
13	Proof stress	$R_{p0,2}$	MPa	—	≥ 780
14	T	Strength	R_m	MPa	$980 \leq R_m \leq 1\ 180$
15		Elongation	A	%	$A_{50\ mm} \geq 10$
16		Reduction of area	Z	%	—
17		Hardness			$HB \leq 197$ or $HV \leq 197$
18	Shear strength	R_c	MPa	—	—
19	Bending	k	—	$0,5; \alpha = 180^\circ$	—
20	Impact strength			iTeh STANDARD PREVIEW	
21	C	Temperature	θ	°C	—
22		Time		h	—
23	C	Stress	σ_a	MPa	—
24		Elongation	a	%	—
25		Rupture stress	σ_R	MPa	—
26		Elongation at rupture	A	%	—
27	Notes (see line 98)			—	—

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34	Grain size	—	See EN 4700-001.
		7	$G \geq 5$
44	External defects	—	See EN 4700-001.
		1	Visual
50	Cleanliness/inclusion content	—	See EN 4700-001.
		1	EN 2951
		7	Category 1
59	Decarburization	—	See EN 4700-001.
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95	Marking inspection	—	See EN 4700-001.
96	Dimensional inspection	—	See EN 4700-001.
98	Notes	—	—
99	Typical use	—	—