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**Aeronavtika - Jeklo X2CrNi18-9 (1.4307) - Taljeno na zraku - Popuščano - Plošče, pločevina in trakovi -  $0,4 \text{ mm} \leq a \leq 20 \text{ mm}$  -  $520 \text{ MPa} \leq R_m \leq 670 \text{ MPa}$**

Aerospace series - Steel X2CrNi18-9 (1.4307) - Air melted - Softened - Plates, sheets and strips -  $0,4 \text{ mm} \leq a \leq 20 \text{ mm}$  -  $520 \text{ MPa} \leq R_m \leq 670 \text{ MPa}$

Luft- und Raumfahrt - Stahl X2CrNi18-9 (1.4307) - Lufterschmolzen - Weichgeglüht - Platten, Bänder und Bleche -  $0,4 \text{ mm} \leq a \leq 20 \text{ mm}$  -  $520 \text{ MPa} \leq R_m \leq 670 \text{ MPa}$

Série aérospatiale - Acier X2CrNi18-9 (1.4307) - Élaboré à l'air - Adouci - Plaques, tôles et bandes -  $0,4 \text{ mm} \leq a \leq 20 \text{ mm}$  -  $520 \text{ MPa} \leq R_m \leq 670 \text{ MPa}$

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**Ta slovenski standard je istoveten z: prEN 2467**

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**ICS:**

49.025.10	Jekla	Steels
77.140.50	Ploščati jekleni izdelki in polizdelki	Flat steel products and semi-products

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**en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 2467**

September 2020

ICS 49.025.10

Will supersede EN 2467:2007

English Version

**Aerospace series - Steel X2CrNi18-9 (1.4307) - Air melted -  
Softened - Plates, sheets and strips -  $0,4 \text{ mm} \leq a \leq 20 \text{ mm}$  -  
 $520 \text{ MPa} \leq R_m \leq 670 \text{ MPa}$**

Série aérospatiale - Acier X2CrNi18-9 (1.4307) -  
Élaboré à l'air - Adouci - Plaques, tôles et bandes -  $0,4$   
 $\text{mm} \leq a \leq 20 \text{ mm}$  -  $520 \text{ MPa} \leq R_m \leq 670 \text{ MPa}$

Luft- und Raumfahrt - Stahl X2CrNi18-9 (1.4307) -  
Lufterschmolzen - Weichgeglüht - Platten, Bänder und  
Bleche -  $0,4 \text{ mm} \leq a \leq 20 \text{ mm}$  -  $520 \text{ MPa} \leq R_m \leq 670$   
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 2467:2020) 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 Standard 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 2467:2007.

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**prEN 2467:2020 (E)**

## **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 X2CrNi18-9 (1.4307)

Air melted

Softened

Plates, sheets and strips

$0,4 \text{ mm} \leq a \leq 200 \text{ mm}$

$520 \text{ MPa} \leq R_m \leq 670 \text{ MPa}$

for aerospace applications.

W. nr: 1.4307.

ASD-STAN designation: FE-PA3901.

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

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

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## 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.

Table 1 — Requirements for steel X2CrNi18-9 (1.4307)

1		Steel X2CrNi18-9 (1.4307)									
2	Chemical composition %	Element	C	Si	Mn	S <sup>a</sup>	P <sup>a</sup>	Cr <sup>a</sup>	Ni <sup>a</sup>	Fe	
		min.	—	—	—	—	—	17,5	8	Base	
		max.	0,030	1	2	0,015	0,045	19,5	10		
3		Method of melting: Air melted									
4.1		Form: Plates, sheets and strips									
4.2		Method of production: Rolled									
4.3		Limit dimension(s)	mm	0,4 ≤ a ≤ 20							
5		Technical specification: EN 4700-001									
6.1		Delivery condition: Softened									
		Heat treatment: 1 000 °C ≤ θ ≤ 1 100 °C/WQ or AQ									
6.2		Delivery condition code: U									
7		Use condition: Delivery condition									
		Heat treatment: —									
Characteristics											
8.1		Test sample(s): See EN 4700-001.									
8.2		Test piece(s): See EN 4700-001.									
8.3		Heat treatment: Delivery condition									
9		Dimensions concerned	mm	0,4 ≤ a ≤ 6			6 ≤ a ≤ 12		12 ≤ a ≤ 20		
10		Thickness of cladding on each face	%	—							
11		Direction of test piece: T									
12		Temperature	θ	°C: Ambient							
13		Proof stress	R <sub>p0,2</sub>	MPa: ≥ 220			MPa: ≥ 200		MPa: ≥ 200		
14		T	Strength	R <sub>m</sub>	MPa: 520 ≤ R <sub>m</sub> ≤ 670			MPa: 520 ≤ R <sub>m</sub> ≤ 670		MPa: 520 ≤ R <sub>m</sub> ≤ 650	
15			Elongation	A	%: ≥ 45						
16			Reduction of area	Z	%: —						
17		Hardness	HV	≤ 205							
18		Shear strength	R <sub>c</sub>	MPa: —							
19		Bending	k	—							
20		Impact strength: —									
21		Temperature	θ	°C: —							
22		Time: h: —									
23		Stress	σ <sub>a</sub>	MPa: —							
24		C	Elongation	a	%: —						
25			Rupture stress	σ <sub>R</sub>	MPa: —						
26			Elongation at rupture	A	%: —						
27		Notes (see line 98): a									



44	External imperfections (visual testing – VT)	—	EN 4700-001
50	Inclusion content	1	EN 2951
		7	Category 2
61	Internal imperfections (ultrasonic testing – UT)	—	EN 4700-001
		6	$a \geq 12$ mm
		7	Class 2
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95	Marking inspection	—	See EN 4700-001.
96	Dimensional inspection	—	See EN 4700-001.
98	Notes	—	<p><sup>a</sup> For specific welding applications (e.g. high power beam), and after agreement between manufacturer and purchaser:</p> <ul style="list-style-type: none"> <li>- maximum content of S and P should be reduced to 0,005 % and 0,020 %, respectively;</li> <li>- ratio between Cr and Ni according to SUUTALA Formula should be <math>&gt; 1,67</math> %;</li> <li>- <math>S + P + B</math> should be <math>\leq 0,025</math> %.</li> </ul>
99	Typical use	—	—

## prEN 2467:2020 (E)

100	—	Product qualification	—	See EN 4700-001.
				Qualification programme to be agreed between manufacturer and purchaser.

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