

<b>STN</b>	<b>Letectvo a kozmonautika</b> <b>Zliatina odolávajúca vysokým teplotám</b> <b>X12CrNiCoMoW21-20</b> <b>Žíhané rozpúšťaním a precipitačne spracované</b> <b>výkovky De ≤ 100 mm</b>	<b>STN</b> <b>EN 4574</b>  31 2889
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Aerospace series - Heat resisting alloy X12CrNiCoMoW21-20 - Solution treated and precipitation treated - Forgings - De 100 mm

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/20

Obsahuje: EN 4574:2020

**130858**

EUROPEAN STANDARD

EN 4574

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2020

ICS 49.025.05

English Version

**Aerospace series - Heat resisting alloy X12CrNiCoMoW21-20 - Solution treated and precipitation treated - Forgings -  
De ≤ 100 mm**

Série aérospatiale - Alliage résistant à chaud  
X12CrNiCoMoW21-20 - Mis en solution et précipité -  
Pièces forgées et pièces matricées - De ≤ 100 mm

Luft- und Raumfahrt - Hochwarmfeste Legierung  
X12CrNiCoMoW21-20 - Lösungsgeglüht und  
ausgelagert - Gesenk- und Freiformschmiedestücke - De  
≤ 100 mm

This European Standard was approved by CEN on 8 December 2019.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

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

**EN 4574:2020 (E)**

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## **European foreword**

This document (EN 4574:2020) 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, 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 August 2020, and conflicting national standards shall be withdrawn at the latest by August 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

**EN 4574:2020 (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 4500-003.

## 1 Scope

This document specifies the requirements relating to:

Heat resisting alloy X12CrNiCoMoW21-20  
Solution treated and precipitation treated  
Forgings  
 $D_e \leq 100$  mm

for aerospace applications.

ASD-STAN designation: FE-PA4901.

## 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 4263, *Aerospace series — Heat resisting alloy FE-PA4901 (X12CrNiCoMoW21-20) — As forged — Forging stock — a or D  $\leq 200$  mm — 690 MPa  $\leq R_m \leq 960$  MPa*

EN 4700-006, *Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 006: Pre-production and production forgings*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**