

**Aerospace series - Steel FE-PM3901  
(X15CrNi17-3) - Air melted - Hardened  
and tempered - Forgings -  $D_e \leq 100$  mm  
-  $900 \text{ MPa} \leq R_m \leq 1\,100 \text{ Mpa}$**

Aerospace series - Steel FE-PM3901 (X15CrNi17-3)  
- Air melted - Hardened and tempered - Forgings -  
 $D_e \leq 100$  mm -  $900 \text{ MPa} \leq R_m \leq 1\,100 \text{ Mpa}$

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 3491:2007 sisaldab Euroopa standardi EN 3491:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 29.01.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 3491:2007 consists of the English text of the European standard EN 3491:2006.</p> <p>This document is endorsed on 29.01.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This standard specifies the requirements relating to: Steel FE-PM3901 (X15CrNi17-3) Air melted Hardened and tempered Forgings <math>D_e \leq 100 \text{ mm}</math> <math>900 \text{ MPa} \leq R_m \leq 1100 \text{ MPa}</math> for aerospace applications.</p>	<p><b>Scope:</b> This standard specifies the requirements relating to: Steel FE-PM3901 (X15CrNi17-3) Air melted Hardened and tempered Forgings <math>D_e \leq 100 \text{ mm}</math> <math>900 \text{ MPa} \leq R_m \leq 1100 \text{ MPa}</math> for aerospace applications.</p>
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ICS 49.025.10

Võtmesõnad:

ICS 49.025.10

English Version

**Aerospace series - Steel FE-PM3901 (X15CrNi17-3) - Air melted  
- Hardened and tempered - Forgings -  $De \leq 100$  mm -  $900$  MPa  
 $\leq Rm \leq 1\ 100$  MPa**

Série aérospatiale - Acier FE-PM3901 (X15CrNi17-3) -  
Élaboré à l'air - Trempe et revenu - Pièces forgées et  
pièces matricées -  $De \leq 100$  mm -  $900$  MPa  $\leq Rm \leq 1\ 100$   
MPa

Luft- und Raumfahrt - Stahl FE-PM3901 (X15CrNi17-3) -  
Lufterschmolzen - Gehärtet und angelassen - Gesenk- und  
Freiformschmiedestücke -  $De \leq 100$  mm -  $900$  MPa  $\leq Rm \leq$   
 $1\ 100$  MPa

This European Standard was approved by CEN on 5 October 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

## Foreword

This document (EN 3491:2006) 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 June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

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

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden,

## 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 4500-5.

## 1 Scope

This standard specifies the requirements relating to:

Steel FE-PM3901 (X15CrNi17-3)  
Air melted  
Hardened and tempered  
Forgings  
 $D_e \leq 100$  mm  
 $900 \text{ MPa} \leq R_m \leq 1\,100 \text{ MPa}$

for aerospace applications.

## 2 Normative references

The following referenced documents are indispensable for the application 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 2157-3, *Aerospace series — Steel — Forging stock and forgings — Technical specification — Part 3: Pre-production and production forgings.*

EN 3365, *Aerospace series — Steel FE-PM3901 (X15CrNi17-3) — Air melted — Softened — Forging stock — a or D  $\leq 300$  mm.* <sup>1)</sup>

EN 4258, *Aerospace series — Metallic materials — General organization of standardization — Links between types of EN standards and their use.*

EN 4436, *Aerospace series — Steel — Test methods — Determination of  $\delta$  ferrite content.* <sup>1)</sup>

EN 4500-5, *Aerospace series — Metallic materials — Rules for drafting and presentation of material standards — Part 5: Specific rules for steels.* <sup>1)</sup>

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