# Aerospace series - Steel FE-PM3801 (X5CrNiCu17-4) - Air melted - Solution treated and precipitation treated - Forgings - a or D ≤ 200 mm - Rm ≥ 930 Mpa

Aerospace series - Steel FE-PM3801 (X5CrNiCu17-4) - Air melted - Solution treated and precipitation treated - Forgings - a or D ≤ 200 mm - Rm ≥ 930 Mpa

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

| | |
|---|---|
| Käesolev Eesti standard EVS-EN 3678:2007 sisaldab Euroopa standardi EN 3678:2007 ingliskeelset teksti.<br><br>Käesolev dokument on jõustatud 31.05.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.<br><br>Standard on kättesaadav Eesti standardiorganisatsioonist. | This Estonian standard EVS-EN 3678:2007 consists of the English text of the European standard EN 3678:2007.<br><br>This document is endorsed on 31.05.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.<br><br>The standard is available from Estonian standardisation organisation. |

| | |
|---|---|
| **Käsitlusala:**<br>This standard specifies the requirements relating to: Steel FE-PM3801 (X5CrNiCu17-4) Air melted Solution treated and precipitation treated Forgings a or D ≤ 200 mm Rm ≥ 930 Mpa for aerospace applications. | **Scope:**<br>This standard specifies the requirements relating to: Steel FE-PM3801 (X5CrNiCu17-4) Air melted Solution treated and precipitation treated Forgings a or D ≤ 200 mm Rm ≥ 930 Mpa for aerospace applications. |

**ICS** 49.025.10

**Võtmesõnad:**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

# EN 3678

March 2007

ICS 49.025.10



English Version

# Aerospace series - Steel FE-PM3801 (X5CrNiCu17-4) - Air melted - Solution treated and precipitation treated - Forgings - a or D ≤ 200 mm - Rm ≥ 930 MPa

Série aérospatiale - Acier FE-PM3801 (X5CrNiCu17-4) - Élaboré à l'air - Mis en solution et vieilli - Pièces forgées et pièces matricées - a ou D ≤ 200 mm - Rm ≥ 930 MPa

Luft- und Raumfahrt - Stahl FE-PM3801 (X5CrNiCu17-4) - Lufterschmolzen - Lösungsgeglüht und ausgehärtet - Schmiedestücke - a oder D ≤ 200 mm - Rm ≥ 930 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 CEN 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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 3678:2007) 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 September 2007, and conflicting national standards shall be withdrawn at the latest by September 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, Bugaria, 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 the United Kingdom.

# 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-PM3801 (X5CrNiCu17-4)
Air melted
Solution treated and precipitation treated
Forgings
*a* or *D* ≤ 200 mm
$R_m$ ≥ 930 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 3163, *Aerospace series — Steel FE-PM3801 (X5CrNiCu17-4) — Air melted — Softened — Forging stock — a or D ≤ 300 mm.* [1)]

EN 4050-4, *Aerospace series — Test method for metallic materials — Ultrasonic inspection of bars, plates, forging stock and forgings — Part 4: Acceptance criteria.* [1)]

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

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

EN 4700-006, *Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 006: Pre-production and production forgings*. [2)]

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

2) In preparation at the date of publication of this standard.