

**Aerospace series - Steel FE-PM 3504
(X4CrNiMo16-5-1) - Air melted - Hardened and
tempered - Forgings - $D_e \leq 200$ mm - $900 \text{ MPa} \leq R_m \leq 1\,050 \text{ MPa}$**

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EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 4630:2008 sisaldab Euroopa standardi EN 4630:2007 ingliskeelset teksti.	This Estonian standard EVS-EN 4630:2008 consists of the English text of the European standard EN 4630:2007.
Standard on kinnitatud Eesti Standardikeskuse 28.01.2008 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 28.01.2008 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 19.12.2007.	Date of Availability of the European standard text 19.12.2007.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

ICS 49.025.10

Võtmesõnad:

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ICS 49.025.10

English Version

**Aerospace series - Steel FE-PM 3504 (X4CrNiMo16-5-1) - Air
melted - Hardened and tempered - Forgings - $De \leq 200$ mm -
 $900 \text{ MPa} \leq R_m \leq 1\,050 \text{ MPa}$**

Série aérospatiale - Acier FE-PM 3504 (X4CrNiMo16-5-1) -
Élaboré à l'air - Trempé et revenu - Pièces forgées - $De \leq$
 $200 \text{ mm} - 900 \text{ MPa} \leq R_m \leq 1\,050 \text{ MPa}$

Luft- und Raumfahrt - Stahl FE-PM 3504 (X4CrNiMo16-5-1)
- Luftschnitten - Gehärtet- und angelassen -
Schmiedestücke - $De \leq 200 \text{ mm} - 900 \text{ MPa} \leq R_m \leq 1\,050$
MPa

This European Standard was approved by CEN on 23 June 2007.

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.

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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 4630:2007) 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 June 2008, and conflicting national standards shall be withdrawn at the latest by June 2008.

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, 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 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-PM 3504 (X4CrNiMo16-5-1)
 Air melted
 Hardened and tempered
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 $D_e \leq 200 \text{ mm}$
 $900 \text{ MPa} \leq R_m \leq 1\,050 \text{ MPa}$

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 2002-8, *Aerospace series — Metallic materials — Test methods — Part 8: Micrographic determination of grain size.* 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 4629, *Aerospace series — Steel FE-PM 3504 (X4CrNiMo16-5-1) — Air melted — Hardened and tempered — Forging stock — $D_e \leq 300 \text{ mm}$.*

EN 4700-6, *Aerospace series — Steel and heat resisting alloys — Wrought products — Technical specification — Part 6: 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.