

Aerospace series - Bolts in heat resisting steel
FE-PM1708 (FV535) - Classification: 1 000 MPa/550 °C -
Technical specification

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 3302:2017 sisaldab Euroopa standardi EN 3302:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 3302:2017 consists of the English text of the European standard EN 3302:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 26.07.2017.	Date of Availability of the European standard is 26.07.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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English Version

**Aerospace series - Bolts in heat resisting steel FE-PM1708
(FV535) - Classification: 1 000 MPa/550 °C - Technical
specification**

Série aérospatiale - Vis en acier résistant à chaud FE-
PM1708 (FV535) - Classification : 1 000 MPa/550 °C -
Spécification technique

Luft- und Raumfahrt - Schrauben aus hochwarmfestem
Stahl FE-PM1708 (FV535) - Klasse: 1 000 MPa/550 °C -
Technische Lieferbedingungen

This European Standard was approved by CEN on 10 April 2017.

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.

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

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European foreword

This document (EN 3302:2017) 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 January 2018, and conflicting national standards shall be withdrawn at the latest by January 2018.

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.

This document supersedes EN 3302:2007.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the technical, qualification and quality assurance requirements for bolts in material FE-PM1708 (FV535) of tensile strength class 1 000 MPa at room temperature, maximum test temperature of material 550 °C.

Primarily for aerospace applications it is applicable to such bolts when referenced on the product standard or drawing.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2493¹⁾, *Aerospace series — Heat resisting steel FE-PM38 — $1\,000\text{ MPa} \leq R_m \leq 1\,140\text{ MPa}$ — Bars*²⁾

EN 4244, *Aerospace series — Heat resisting alloy FE-PM1708 — Vacuum arc remelted, hardened and tempered, bar a or $D \leq 200\text{ mm}$, $1\,000\text{ MPa} \leq R_m \leq 1\,140\text{ MPa}$* ²⁾

EN 4245, *Aerospace series — Heat resisting alloy FE-PM1708 — Vacuum arc remelted, as forged, forging stock $D_e \leq 300\text{ mm}$* ²⁾

EN 9100, *Quality Management Systems — Requirements for Aviation, Space and Defense Organizations*

EN 9133, *Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts*

EN ISO 3452-1, *Non-destructive testing — Penetrant testing — Part 1: General principles (ISO 3452-1)*

EN ISO 4288, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Rules and procedures for the assessment of surface texture (ISO 4288)*

ISO 2859-1, *Sampling procedures for inspection by attributes — Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection*

ISO 3534:1977, *Statistics — Vocabulary and symbols*

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method*

ISO 9000, *Quality management systems — Fundamentals and vocabulary*

TR 3040-1, *Aerospace series — Quality Assurance — EN aerospace products — Part 1: List of approved manufacturers*³⁾

1) Inactive for new designation, see EN 4244 and EN 4245.

2) Published as ASD-STAN Prestandard at the date of publication of this standard. <http://www.asd-stan.org/>

3) Published as ASD-STAN Technical Report at the date of publication of this standard. <http://www.asd-stan.org/>