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**AEROSPACE SERIES - BOLTS IN HEAT
RESISTING STEEL FE-PA2601 (A286) -
CLASSIFICATION: 1 100 MPA/650 °C -
TECHNICAL SPECIFICATION**

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English Version

**Aerospace series - Bolts in heat resisting steel FE-PA2601
(A286) - Classification: 1 100 MPa/650 °C - Technical
specification**

Série aérospatiale - Vis en acier résistant à chaud FE-
PA26HT (A286) - Classification: 1 100 MPa/650 °C -
Spécification technique

Luft- und Raumfahrt - Schrauben aus hochwarmfestem
Stahl FE-PA2601 (A286) - Klasse: 1 100 MPa/650 °C -
Technische Lieferbedingungen

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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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Foreword

This document (EN 3685:2008) 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of an identical text or by endorsement, at the latest by October 2008, and conflicting national standards shall be withdrawn at the latest by October 2008.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.

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1 Scope

This standard specifies the technical, qualification and quality assurance requirements for bolts in material FE-PA2601 (A286) of tensile strength class 1 100 MPa at room temperature, maximum test temperature of material 650 °C.

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

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.

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 3452, *Non-destructive testing — Penetrant inspection — General principles.*

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

ISO 6508-1, *Metallic materials — Rockwell hardness test — Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T).*

ISO 7961, *Aerospace — Bolts — Test methods.*

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

EN 2002-8, *Aerospace series — Metallic materials — Test methods — Part 8: Micrographic determination of grain size.* ¹⁾

EN 3041, *Aerospace series — Propulsion standard parts — Manufacturing process change procedure for qualified parts.* ²⁾

EN 3761, *Aerospace series — Heat resisting alloy FE-PA2601 — Softened and cold worked — Bar for forged fasteners — $D \leq 50 \text{ mm}$ — $1\ 100 \text{ MPa} \leq R_m \leq 1\ 300 \text{ MPa}$.* ¹⁾

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

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

ASTM E 112-96, *Standard Test Methods for Determining Average Grain Size.* ⁴⁾

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

3) Published as ASD Technical Report at the date of publication of this standard.

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