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Aerospace series - Stud with shoulder

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 6105

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English Version

Aerospace series - Stud with shoulder

Série aérospatiale - Axe à épaulement

Luft- und Raumfahrt - Verschlussbolzen mit Bund

This European Standard was approved by CEN on 11 March 2016.

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.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 6105:2016) 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of an identical text or by endorsement, at the latest by March 2017, and conflicting national standards shall be withdrawn at the latest by March 2017.

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1 Scope

This European Standard specifies the dimensions, tolerances, required characteristics and mass of a stud for use in fuselage interior equipment and structural applications. This standard shall be used in conjunction with retaining washer per EN6090A01 (conform to EN 6090) and receptacles per EN 6092 or EN 6093.

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 2424, *Aerospace series — Marking of aerospace products*

EN 2516, *Aerospace series — Passivation of corrosion resistant steels and decontamination of nickel base alloys*

EN 4318, *Aerospace series — Heat resisting alloy FE-PA2601 (X6NiCrTiMoV26-15) — Solution treated and precipitation treated — bar and section, $D_e \leq 100$ mm, $R_m \geq 960$ MPa*[1)]

EN 6090, *Aerospace series — Washer, retaining*[1)]

EN 6092, *Aerospace series — Receptacle, floating, double lug*[1)]

EN 6093, *Aerospace series — Receptacle, floating, single lug*[1)]

EN 6094, *Aerospace series — Washer, spring, countersunk*[1)]

EN 6095, *Aerospace series — Rotary fasteners — Structural and non-structural applications — Technical specification*[1)]

ISO 2768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*

SAE-AMS 2700, *Passivation of corrosion resistant steels*[2)]

SAE-AMS 5629, *Steel, corrosion-resistant, bars, wire, forgings, rings and extrusions, 13Cr — 8.0Ni — 2.2Mo — 1.1Al, vacuum induction plus consumable electrode melted, solution heat treated, precipitation hardenable*[2)]

SAE-AMS 5737, *Steel, corrosion and heat-resistant, bars, wire, forgings and tubing 15Cr — 25.5Ni — 1.2Mo — 2.1Ti — 0.006B — 0.30V, consumable electrode melted, 1 650 °F (899 °C) solution and precipitation heat treated*[2)]

SAE-AS 8879, *Screw threads, UNJ profile, inch controlled radius root with increased minor diameter*[2)]

MIL-DTL-83488, *Coating, aluminum, high purity*[3)]

MIL-S-7742, *Screw threads, standard, optimum selected series: general specification for*[3)]

NASM 33781, *Recess, Offset cruciform, dimensions of recess, gage and driver for*[4)]

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

[2)] Published by: SAE International, 400 Commonwealth Drive, Warrendale, P.A., 15096-0001, USA

[3)] Published by: Department of Defense (DoD), the Pentagon, Washington, D.C., 20307, USA

[4)] Published by: Aerospace Industries Association of America, (AIA), 1250 Eye Street, N.W., Washington, D.C. 20005-3924, USA